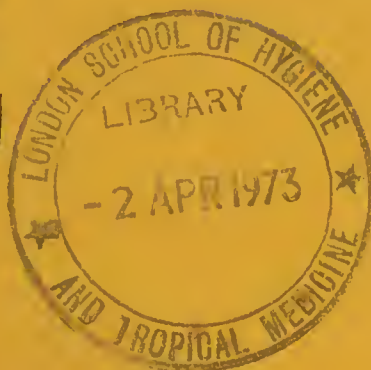


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COUNTY OF ANGUS



Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

AND OF THE

COUNTY SANITARY INSPECTOR

FOR THE YEAR

1971

PUBLIC HEALTH DEPARTMENT,
RAVENSWOOD,
FORFAR, DECEMBER 1972.

To:-

The County Council of Angus
The Town Councils of Brechin, Carnoustie, Forfar, Kirriemuir,
Monifieth and Montrose
The Scottish Home and Health Department.

Ladies and Gentlemen,

As required by Local Health Authority Services Circular No. 18/1971 issued by the Scottish Home and Health Department I herewith submit my Report on the Health of the County during the year 1971 with a report on the School Medical Service for the year ending 31st July, 1971.

I wish to record my thanks to members of the staff of the Public Health Department.

I am,
Your obedient Servant,

(Signed) W. BURNETT,
Medical Officer of Health.

STAFF OF PUBLIC HEALTH DEPARTMENT

Medical Officer of Health	... Walter Burnett, M.B., Ch.B., D.P.H.
Depute Medical Officer of Health	... Margaret D. Hird, M.B., Ch.B., D.P.H.
Departmental Medical Officers	... Jessie C.M. Learmonth, M.B., Ch.B., D.P.H. Frederick R. Hood, M.B., Ch.B.
Part-time Departmental Medical Officers	... Winifred W. Lumsden, M.B., Ch.B. Sheila M. Tocher, M.B., Ch.B., D.P.H.
Chief Dental Officer	... Douglas N. Anderson, L.D.S.
Dental Officers	... Ena A. Millar, L.D.S. Elizabeth J. Mann, L.D.S. Keith C. Forsey, B.D.S. Andrew O. Lilburn, B.D.S. (Commenced 16.8.71)
Part-time Dental Officers	... Mrs. Narcyza Lilburn, B.D.S. (Commenced 11.1.71) (Resigned 7.5.71) Mrs. Margaret M. Wright, B.D.S. (Commenced 5.1.71) (Duties terminated 9.3.71)
Chief Chiropodist	... Leslie F. Brash, M.Ch.S., S.R. Ch.
Senior Chiropodists	... Mrs. S. Anderson, M.Ch.S., S.R.Ch. Mrs. M. Harley, M.Ch.S., S.R. Ch. David J.P. Neave, M.ChS., S.R.Ch.
Part-time Senior Chiropodist	... John Forbes, S.R.Ch. (Commenced 25.1.71)
Superintendent of Nurses	... Elizabeth M. Proctor, R.G.N., S.C.M., Q.N. H.V.
Depute Superintendent of Nurses	... Rosemary E.A. Duncan, R.G.N., R.S.C.N., S.C.M., Q.N., H.V. (Resigned 30th June, 1971) Dorothy Haxton, R.G.N., R.F.N., H.V. (Commenced 1st July, 1971)
County Sanitary Inspector	... Robert A. Taylor
Depute Sanitary Inspector	... Thomas Gordon
Depute Master of Works	... William Henderson
Sanitary Inspectors	... Laurence Borthwick James Somerville Thomas Hendry Vincent Connor (Commenced 4.6.71)
Building Inspector	... George Milne
Milk Officer	... Christian J.W. Gall, B.Sc., (Agric). N.D.D.
Dental Attendants	... Gillian Esplin Margaret A. Robertson Barbara White Rachael J. McIntosh Pauline Pearson (Commenced 23.8.71)
Part-time Dental Attendants	... Mrs. Sheila Paterson (Resigned 5.2.71) Mrs. Christina C. Simpson (Commenced 5.1.71) (Duties terminated 9.3.71) Gail A. Robertson (Commenced 8.2.71) (Duties terminated 7.5.71)

NURSING STAFF

HEALTH VISITORS/SCHOOL NURSES

Annie J. Downie, R.G.N., S.C.M., H.V.	...
Ethel C. Clark, R.G.N., Q.N.	...
Dorothy H. Haxton, R.G.N., R.F.N., H.V.	...
Eleanor Grieve, R.G.N., R.F.N.	...
Susan E. Greaves, R.G.N.	...
Anne Gray, R.G.N., H.V.	...
Jean F. Henderson, R.G.N., S.C.M., H.V.	...
Patricia Malloch, R.G.N., S.C.M., H.V.	...
Margaret Anderson, R.G.N., S.C.M., H.V.	...
Amelia Ballard, R.G.N., S.C.M., H.V.	...
Ann Herschell, R.G.N., S.C.M., H.V.	...
Margaret Deuchar, R.G.N., S.C.M.	...

NURSING DISTRICT

Brechin Burgh (Resigned 20.8.71)
Brechin Burgh (Commenced 4.10.71)
Forfar Burgh (Resigned 30.6.71)
Forfar Burgh
Forfar Burgh (Commenced 29.11.71)
Carnoustie Burgh (Resigned 15.6.71)
Carnoustie Burgh (Commenced 1.8.71)
Monifieth Burgh
Montrose Burgh
Montrose Burgh (Resigned 31.5.71)
Montrose Burgh (Commenced 1.6.71)
Monifieth and Carnoustie (Part-time)

DISTRICT NURSE/MIDWIFE/HEALTH VISITORS

Phyllis Donald, R.G.N., S.C.M., Q.N., H.V.	...
Marjorie Ogilvie, R.G.N., R.F.N., S.C.M., Q.N.	...
Elizabeth Watt, R.G.N., S.C.M., H.V.	...
Ann Strathern, R.G.N., S.C.M., Q.N.	...
Robina Lindsay, R.G.N., S.C.M., Q.N.	...
Elizabeth Budka, R.G.N., S.C.M., Q.N.	...
Janet Edwards, R.G.N., S.C.M., Q.N.	...
Susanne Kranold, R.G.N., S.C.M., Q.N.	...
Jessie A. Bruce, R.G.N., S.C.M., Q.N., H.V.	...
Elizabeth Topen, R.G.N., S.C.M., Q.N., H.V.	...
Sarah Carmichael, R.G.N., S.C.M., Q.N.	...
Jessie McDougall, R.G.N., S.C.M., Q.N.	...
Ann Beattie, R.G.N., S.C.M., Q.N.	...
Rosetta Ogilvie, R.G.N., S.C.M., Q.N., H.V.	...
Elizabeth McKelvie, R.G.N., S.C.M., Q.N.	...
Anna Ogilvie, R.G.N., S.C.M., Q.N.	...

NURSING DISTRICT

Airlie
Arbirlot
Auchterhouse
Careston
Edzell
Friockheim
Hillside
Inverarity
Inverkeilor
Kirriemuir
Kirriemuir Landward
Letham
Monikie
Murroes
Newtyle
Southesk

DISTRICT NURSE/MIDWIVES

Catherine MacKenzie, R.G.N., S.C.M., Q.N.	...
Grace Stewart, R.G.N., S.C.M., Q.N.	...
Margaret Forrest, R.G.N., S.C.M., Q.N.	...
Alexa Robertson, R.G.N., S.C.M.	...
Janet Findlay, R.G.N., S.C.M., Q.N.	...
Elizabeth Lord, R.G.N., S.C.M., Q.N.	...
Helen Mair, R.G.N., S.C.M.	...
Margaret R. Bell, R.G.N.	...
Susan Clark, R.G.N., Q.N.	...
Joan Stewart, R.G.N.	...
Grace Williams R.G.N., Q.N.	...

NURSING DISTRICT

Brechin
Brechin
Carnoustie
Carnoustie
Forfar
Monifieth
Forfar (Part-time)
Forfar (Part-time)
Montrose
Montrose
Montrose

CLERICAL STAFF

Margaret D. McIntosh	...	Senior Clerkess
Margaret Davidson	...	Senior Clerkess
Elizabeth Robertson	...	Clerkess/Typist
Barbara B. Coull	...	Clerkess/Typist
Elizabeth C. Kinnear	...	Clerkess/Typist
Ann Flett	...	Clerkess/Typist (Resigned 31.1.71)
Kathleen Kennedy	...	Clerkess/Typist (Commenced 20.9.71)
Irene N. Robertson	...	Junior Clerkess/Typist
Rosemary Vorm	...	Junior Clerkess/Typist
Patricia Salmond (Shepherd from 6.3.71)	...	Junior Clerkess/Typist (Resigned 17.9.71)
Kathryn E. Ferrier	...	Junior Clerkess/Typist
Joyce Gourlay	...	Junior Clerkess/Typist (Commenced 17.5.71)
Ruth J. Fraser	...	Clerkess/Typist (Sanitary Department)
Brenda M. Neave	...	Junior Clerkess/Typist/Telephonist (Sanitary Department) (Resigned 15.10.71)
Gweneth Carr	...	Junior Clerkess/Typist/Telephonist (Sanitary Department) (Commenced 18.10.71)

CLINIC SESSIONS

FORFAR BURGH

at Ravenswood

Monday	9.30 a.m.	Minor Ailments (School Medical Service)
Monday	9 - 4 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday (by arrangement)	9.00 a.m.	Specialist Clinic (Eye)
Tuesday (2nd in month)	9.30 - 12 noon	Specialist Clinic (Orthopaedic)
Tuesday	2.00 - 4.00 p.m.	Child Welfare
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Wednesday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Thursday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Thursday	2.30 - 3.15 p.m.	Mothercraft
Thursday	3.15 - 4.15 p.m.	Antenatal Relaxation Class
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

BRECHIN BURGH

At Damacre Road

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Monday	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9.00 - 12 noon	Speech Therapy (Welfare Office, Panmure Street), in abeyance no Speech Therapist)
Tuesday (by arrangement)	1.45 p.m.	Specialist Clinic (Eye)
Wednesday	2.00 - 4.00 p.m.	Child Welfare
Thursday	11.15 a.m.	Minor Ailments (School Medical Service)
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

MONTROSE BURGH

at Esk House

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Monday	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9.00 - 4.00 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Tuesday	2.00 p.m.	Baby Weighing Clinic
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 p.m.	Special Clinic (Eye)

MONTROSE BURGH (continued)

Thursday	12.00 noon	Minor Ailments (School Medical Service)
Thursday	2.30 - 3.30 p.m.	Mothercraft
Thursday	3.00 - 4.00 p.m.	Antenatal Relaxation Class
Friday	2.00 - 4.00 p.m.	Child Welfare
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

CARNOUSTIE BURGH

at 126 High Street

Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Thursday	2.00 - 4.00 p.m.	Child Welfare

at Carnoustie School

Thursday	9.00 - 12.00 noon	Speech Therapy (in abeyance, no Speech Therapist)
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

MONIFIETH BURGH

at Seaview

Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Monday	2.00 - 4.00 p.m.	Child Welfare
Thursday	9.00 - 12.00 noon	Speech Therapy (in abeyance, no Speech Therapist)
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

ARBROATH CLINIC

at 7 Hill Street

Monday	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Monday	2.30 p.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Tuesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Tuesday	2.00 - 4.30 p.m.	Physiotherapy Treatment
Wednesday, 1st, 3rd and 4th	9.30 - 12.00 noon	Specialist Clinic (Orthopaedic)
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday	2.00 p.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Friday	9.00 - 4.00 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Friday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Saturday (by arrangement)	9.30 - 12.00 noon	Physiotherapy Treatment

Chiropody Clinics are held by appointment at:-

7 Hill Street	...	...	Arbroath
Damacre School Clinic	...	...	Brechin
Clinic, 126 High Street	...	...	Carnoustie
Ravenswood Clinic	...	...	Forfar
Esk House Clinic	...	...	Montrose
Inglis Memorial Hall	...	...	Edzell
Church Hall	...	...	Ferryden
Town Hall	...	...	Kirriemuir
Clinic, Seaview School	...	...	Monifieth
Ex-Service hut	...	...	Muirhead
The Hall	...	...	Tealing
Nurses Homes	...	...	Hillside, Letham, Newtyle, Glamis and Friockheim.

Home visits are paid to Burgh cases who are unable to attend the Clinic and to country cases where there is no convenient Clinic or suitable accommodation available in the District Nurse's house serving the area.

VITAL STATISTICS

The Registrar General's estimate of the mid-year population of the County for the year 1971 is based on the provisional resident population figures at the 1971 census, adjusted for further information on usual residence and later changes in the population.

The following table gives the estimated mid-year population for 1971 and compares it with that of 1961 and that of 1951, which were also census years.

Population	1971	1961	1951
Burgh of Brechin	6702	7198	7278
Carnoustie	6288	5516	5207
Forfar	10651	10252	9999
Kirriemuir	4192	3476	3568
Monifieth	6300	3488	3420
Montrose	10091	10793	10778
Total Burghal	44224	40723	40250
Landward	30212	35474	38001
	<u>74436</u>	<u>76197</u>	<u>78251</u>

BIRTHS

	1971	1970	1969
Live births allocated to the County	1100	1147	1168
Birth Rate	14.8	15.6	15.4

Live births according to the area of mother's residence:-

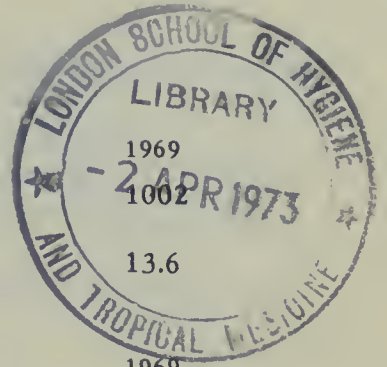
	1971	1970	1969
Burgh of Brechin	89	90	87
Carnoustie	91	90	104
Forfar	157	148	155
Kirriemuir	61	66	73
Monifieth	114	136	100
Montrose	136	151	148
Landward	452	466	501
	<u>1100</u>	<u>1147</u>	<u>1168</u>

STILL BIRTHS

	1971	1970	1969
After correction for transfer:-			
No. of still births	12	18	12
Still Birth Rate (no. of still births per 1000 births)	11	15	10

ILLEGITIMATE BIRTHS

	1971	1970	1969
No. of illegitimate births	54	65	62
Illegitimate birth rate (per 100 live births)	4.9	5.7	5.3



DEATHS

After correction for transfer:-

	1971	1970
No. of deaths	973	994
Death Rate (No. of deaths per 1000 population)	13.1	13.5

Distribution of Deaths by Age Groups:-

	1971	1970	1969
Under 1 year	25	18	13
From 1 - 4 years	4	6	1
5 - 9 years	2	5	2
10 - 14 years	0	0	1
15 - 24 years	4	15	10
25 - 34 years	2	9	10
35 - 44 years	11	21	19
45 - 54 years	43	43	61
55 - 64 years	128	134	145
65 - 74 years	255	284	263
75 - 84 years	322	294	322
85 years and over	177	165	155

The diseases responsible for the largest number of deaths were:-

	1971	1970	1969
Diseases of the Heart and Circulation	413	380	367
Malignant Disease	197	205	269
(including Cancer of the Lung)	36	41	34
Cerebro-vascular Disease	154	132	179
Other Diseases of the Nervous System	9	18	114
Diseases of the Respiratory System	77	118	Figure not available
Diseases of the Genito Urinary System	22	20	32
Diseases of the Digestive System	23	15	Figure not available
Diabetes	7	18	

	1971	1970	1969
No. of Deaths from Violence	37	42	51

Included in the above deaths from violence were:-

	1971	1970	1969
Deaths by suicide	5	5	9
Deaths by motor Vehicles	11	17	13
Deaths by accidents in the home	11	14	14

INFANT MORTALITY

After correction for transfer:-

	1971	1970	1969
No. of deaths of children under 1 year	25	18	13

INFANT MORTALITY (continued)

	1971	1970	1969
Infant Mortality Rate (per 1000 live births)	23	16	11
No. of deaths of children under 4 weeks	18	9	8
Neonatal death rate (per 1000 live births)	16	8	7

PERINATAL DEATHS

	1971	1970	1969
No. of still born infants	12	18	12
No. of infants who died in first week of life	15	7	6
Total (i.e. No. of perinatal deaths)	27	25	18
Perinatal death rate (per 1000 live and still births)	24.28	21.46	15.36

Cause of death in infants:-

	Under 4 Weeks	4 Weeks to 1 Year
Birth injury, difficult labour and other anoxic and hypoxic conditions	10	-
Enteritis	-	1
Meningitis	-	1
Pneumonia	-	1
Congenital Anomalies of the Circulatory System	1	1
Other Congenital Anomalies	3	1
Accidents in the Home	1	1
Other violence	-	1
Other general disease	1	-
Other causes	2	-
	<u>18</u>	<u>7</u>

DEATHS FROM TUBERCULOSIS

	1971	1970	1969
No. of deaths	1	-	4

SENILE DEATHS

	1971	1970	1969
No. of persons who died after their 65th birthday	754	743	740
Senile death rate (per 100 deaths)	77.5	74.75	73.85

MATERNAL DEATHS

There were no deaths from child-birth in 1971.

LOCAL AUTHORITY FUNCTIONS

MIDWIFERY, MATERNITY AND CHILD WELFARE SERVICES

Births in Angus before transfer, i.e. before correction for mothers' usual place of residence:-

	1971	1970	1969
No. of babies born within the County	506	477	536
No. of still births (included in above)	1	2	1

The still birth occurred in one of the Maternity Homes.

Place of Birth		1971	1970	1969
Own Home	No. of births	6	8	9
	Percentage	1.2	1.7	1.7
Fyfe-Jamieson Maternity Home	No. of births	255	242	269
	Percentage	50.4	50.7	50.2
Charleton Maternity Home	No. of births	245	227	257
	Percentage	48.4	47.6	47.9
Stracathro Hospital	No. of Births	-	-	1
	Percentage	-	-	0.2

Births to Angus mothers after transfer, i.e. after correction for mother's usual place of residence:-

	1971	1970	1969
No. of live births	1100	1147	1168
No. of still births	12	18	12
Total No. of births	1112	1165	1180

Births transferred to Angus occurred in the following hospitals:-

	1971	1970	1969
Dundee Royal Infirmary	348	371	352
(still births included)	5	11	10
Maryfield Hospital, Dundee	221	258	240
(still births included)	5	5	1
Arbroath Infirmary	101	109	105
Aberdeen Maternity Hospital	5	11	8
(still births included)	1	-	-
Perth Royal Infirmary	6	6	6
Blairgowrie Cottage Hospital	9	5	14
Torphins Maternity Hospital, Aberdeen	1	-	-
Simpson Maternity Hospital, Edinburgh	2	-	2
Arduthie Hospital, Stonehaven	-	1	-

CARE OF MOTHERS AND YOUNG CHILDREN

HEALTH VISITING

Much of the care of mothers and young children is done by home visits paid by the Health Visitors or by District Nurses doing health visiting duties. At these visits advice is given and the child's development is kept under surveillance, medical consultation being obtained when any abnormality is seen. Immunisation of the child is

advised and explained. Health education is included in these visits, often in an unobtrusive and effective manner to mothers who would be unwilling to accept more formal teaching.

MATERNAL AND CHILD WELFARE VISITS

Visits in 1971	No. of Cases	No. of Visits
1. Expectant Mothers	1230	4387
2. Children born in 1971	1217	9694
3. Children born in 1970	1700	9509
4. Children born in 1966-69	3954	11320
5. Total	<u>8101</u>	<u>34910</u>

Comparison of above table with corresponding figures in previous two years.

	1971		1970		1969	
	Cases	Visits	Cases	Visits	Cases	Visits
1.	1230	4387	1009	3556	982	3481
2.	1217	9694	1298	10275	1322	10412
3.	1700	9509	1857	9060	1970	9574
4.	3954	11320	4315	11343	4512	11169
5.	8101	34910	8479	34234	8886	34636

CHILD WELFARE CLINICS

NO. of CHILDREN ATTENDING

	No. of Clinics per week	Born 1971	Born 1970	Born 1966-69	Total Attendances
Brechin	1	62	65	82	1911
Carnoustie	1	86	76	70	1538
Forfar	1	105	97	69	1236
Monifieth	2	90	143	146	1979
Montrose	2	159	134	209	2664
Totals for 1971		<u>502</u>	<u>515</u>	<u>576</u>	<u>9328</u>
Comparable Totals					
for 1970		520	454	593	9705
for 1969		503	528	637	8953

The above Clinics are staffed by the Local Authority Doctors and Health Visitors. The children's development and progress are assessed and where necessary investigation and treatment are initiated. Advice is given. Mothers are encouraged to ask about their problems and doubts. Since the early days of Child Welfare Clinics the types of problems and anxiety of the mothers have changed from time to time, but the support given at these Clinics is still of undoubted value. Much of the Health Education to young mothers is reiterated at these Clinics, and mothers are invited to attend the educational films shown and amplified by the Health Visitors at the Mothercraft Sessions. Immunisation is advised and carried out against Diphtheria, Tetanus, Whooping Cough, Poliomyelitis and Measles. In the latter part of the year routine Smallpox Vaccination was discontinued. (See section of this Report on Immunisation)

Welfare Clinics were held by the District Nurse/Health Visitors in the Duty Rooms of their houses at Kirriemuir, Cortachy, Newtyle and Hillside.

MOTHERCRAFT SESSIONS

These sessions for expectant mothers are held in the Burgh Clinics. Women who are expecting their first babies are particularly encouraged to attend.

	No. of Mothers Attending	No. of Attendances
Forfar	33	121
Montrose	45	183
Carnoustie	2	6
	<u>80</u>	<u>310</u>

WELFARE FOODS

Distribution of Welfare Foods at Clinics and by District Nurses.

Number of:-

	Packets of Vitamin Tablets for Mothers	Packets of Dried Milk	Bottles of Cod Liver Oil	Bottles of Orange Juice	Bottles of Vitamin A.D. & C. Drops for Babies
1971	904	1831	682	19666	1548
1970	1206	3407	1093	21212	-
1969	1132	4171	1276	18439	-

In April 1971 a new preparation in the form of drops containing Vitamin A. D. and C. was produced. These drops replaced Cod Liver Oil and Orange Juice. The drops are not harmful to children's teeth like the syrupy Orange Juice and they are more acceptable than Cod Liver Oil to many mothers to administer and to many children to swallow.

The fall in the issue of National Dried Milk seems to be due to the provision of cheap milk ceasing from 4th April, 1971. After that National Dried Milk was sold at 20p per packet, a price increase of 8½p. It continued to be available free against free Welfare Milk Tokens. New conditions for eligibility for free milk made more families entitled to it. The Health Visitors and District Nurses explain this to the mothers in their districts and it is expected that there will be a future increase on the present uptake of National Dried Milk.

ORTHOPAEDIC CARE

Children under school age attending County Orthopaedic Clinics under the Scheme.

	Angus County			Arbroath Burgh			Total		
	1971	1970	1969	1971	1970	1969	1971	1970	1969
No. of children seen by Specialist	342	252	333	434	596	504	776	848	837
No. of cases receiving Physiotherapy	66	54	46	81	54	64	147	108	110
No. of cases referred to Hospital for treatment	11	13	35	4	13	0	15	26	35

The children seen at Arbroath Burgh Clinic include children from the surrounding Landward Area and from Carnoustie as well as Arbroath Children.

OPHTHALMIC CARE

No. of children under school age referred to Eye Specialists:-

	1971	1970	1969
New cases	37	27	30
Old cases	34	39	26
Total	71	66	56

DENTAL CARE

No. of cases treated by County Council's Dental Staff as an extension of the School Dental Service:-

	1971	1970	1969
Expectant Mothers	3	4	3
Nursing Mothers	5	2	2
Children under School Age	42	29	53
Total	50	35	58

Details of treatment given in 1971 —

Pre-School Children

Fillings in deciduous teeth	62
Extractions of deciduous teeth	34
Other operations	8
General anaesthetics	1

Expectant and Nursing Mothers

Fillings in permanent teeth	21
Extractions of permanent teeth	4
Other operations	4
Dentures supplied	-

AT RISK REGISTER

This is a Register of pre-school children who may develop or acquire physical or mental defects as a result of known pre-natal, intra-natal or post-natal factors. Their progress is reviewed at regular intervals and their names are removed from the Register if it is evident that no defect has been or is likely to be caused, or if a handicap has become manifest they are transferred to the Handicapped Register.

Much of the information to complete this Register is got from Maternity Hospital or Home Discharge Summaries after confinement, known family social and medical histories and reports from the Consultant Paediatricians.

Total No. of Children on Register at 31st December:-

	1971	1970	1969
Children born in 1971	210	238	250
1970	130	157	101
1969	98	65	50
1968	76	38	42
1967	33	28	34
Total	547	526	477

PHENYLKETONURIA TESTING

Phenylketonuria is an inborn metabolic error which, if untreated leads to rapid development of mental retardation. If it is detected at a very early stage and treatment by a special diet is introduced and maintained this mental retardation can be prevented. Once it has developed it cannot be cured. To detect phenylketonuria at the earliest possible stage, blood samples are taken in the neonatal period and sent to Strathmartine Hospital. The Medical Officer of Health makes every effort to ensure that all infants have this test done. The blood sample is taken either at the hospital where the baby was born, or at home by the Health Visitor or District Nurse, unless it has been ascertained that the General Practitioner wishes to do it himself. When a repeat test is needed it is usually done by the nurse. This testing scheme was successfully operated throughout the year. 1260 tests were done and no case of phenylketonuria was found.

In November the Eastern Regional Hospital Board intimated that from 1st January next year the testing of blood samples would be done at Stobhill Hospital, Glasgow instead of at Strathmartine. These tests are at present done at Stobhill for the whole of Scotland except the Eastern Region.

FAMILY PLANNING

No. of Clinics held and attendances:-

	No. of Sessions	No. of New Cases Seen	No. of Cases Examined	Total Attendances
Brechin	9	11	19	30
Carnoustie	3	3	7	10
Forfar	16	28	44	72
Monifieth	4	7	10	17
Montrose	13	15	39	54
Total 1971	45	64	119	183
Total 1970	33	40	69	109
Total 1969	20	40	56	116

The provision of intra-uterine devices and oral contraceptives was begun during 1971. 12 intra-uterine devices were supplied and 7 women were given contraceptive pills.

Angus women also made 94 attendances at Family Planning Association Clinics in Dundee, these attendances being paid for by Angus County Council by mutual arrangement with the Association. The majority of those attending lived near Dundee.

NURSING SERVICES

HEALTH VISITING

During the year there were Health Visitor vacancies in the burghs of Montrose, Forfar, Brechin and Carnoustie. Permanent full-time appointments were made in Montrose and Carnoustie and a temporary appointment was made in Brechin. A full-time Health Visitor could not be got in Forfar and a part-time appointment was made.

In the burghs, except Kirriemuir, the Health Visiting duties were done by the Health Visitors, with assistance from the District Nurses and School Nurses, and in Kirriemuir and the Landward Districts by the District Nurses doing combined duties. As in previous years in the Glenisla District, by arrangement with Perthshire County Council, the Health Visiting duties were carried out by the Alyth District Nurse.

Health Visiting duties include the care of mothers and young children, visits to notified cases of tuberculosis and their contacts, visits to old people, inspection of school children with, when necessary, visits to the children's homes, assisting with epidemiological investigations, Health Education and visits connected with the Home Help Service and Mental Health. The Burgh Health Visitors and School Nurses also staff the clinics held under the various schemes of the Local Authority.

Numerical details of the Health Visitors' work are shown in a table at the end of this section.

HOME NURSING

This service is carried out by the District Nurses employed by the County Council, and in the Glenisla District by the Alyth District Nurse by arrangement as described above.

Particulars of this service are detailed in the tables at the end of this section.

MIDWIFERY SERVICES

These services are provided by the District Nurses who undertake midwifery and also by the Alyth District Nurse. The number of home confinements in the year was again small. Domiciliary post-natal care is given to mothers and their babies who are discharged from hospital early in the lying-in period. Ante-natal supervision is also carried out by either District Nurses or Health Visitors. Many pregnancies become known to the Health Department after confinement has been booked at the Maternity Hospital and for one reason or another this may be somewhat late. Figures are given in the tables at the end of this section.

LINKS BETWEEN GENERAL MEDICAL PRACTITIONERS AND THE LOCAL AUTHORITY NURSES

In September, 1971 the District Nurse/Health Visitor/Midwife of the Friockheim District was attached to the General Practice in Friockheim. This attachment is really complete although the nurse is still available as the "Village District Nurse" for guidance and advice to the very few local residents not on the list of the Friockheim doctor. An explanatory letter was sent to each general practitioner in Forfar, Brechin and Arbroath describing arrangements for the provision of Local Authority Nursing Services for their patients living in the Friockheim Nursing District — those duties are shared between the Arbirlot, Inverkeilor, Letham and Farnell Nurses.

Attachment in Kirriemuir was planned and is expected to begin early in 1972.

In Brechin, Carnoustie, Kirriemuir and Montrose the Health Visitor or District Nurses assisted at certain of the General Practitioners' Clinics in their surgeries. At Newtyle and Auchterhouse the District Nurses, who are also Health Visitors and Midwives, helped at General Practitioner Clinics and can thus continue liaison with the doctor for the majority of patients in their district.

HEALTH VISITING — SUMMARY OF TYPES OF VISIT

	No. of Cases	No. of Visits
1. Expectant Mothers	1230	4387
2. Pre-School Children		
Born in 1971	1217	9694
Born in 1970	1700	9509
Born in 1966-69	3954	11320
	<hr/> 6871	<hr/> 30523

HEALTH VISITING (continued)

	No. Cases	No. of Visits
3. School Children	734	1434
4. Persons aged 65 and over includes those visited at request of G.P. or Hospital	2347	13363
	<u>78</u>	<u>365</u>
5. Mental Health — Care and After Care includes those visited at request of G.P. or Hospital	123	699
	<u>7</u>	<u>91</u>
6. Other Hospital After Care includes those visited at request of G.P. or Hospital	44	849
	<u>11</u>	<u>645</u>
7. Tuberculous Households	138	476
8. Infectious Disease	80	158
9. Home Help Supervision, etc.	422	3205
10. Miscellaneous	797	1399
Total	<u>12786</u>	<u>56493</u>
	1971	1970
	1969	
Total No. of Cases	12786	12699
Total No. of Visits	56493	55886
		51201

HOME NURSING — SUMMARY OF TYPE OF CASE

Type of Case	Total No. of Cases
Abdominal	65
Anaemia	338
Bronchitis and Pneumonia	74
Cardiac	113
Cerebral	111
Diabetes	49
Disseminated Sclerosis	33
Obstruction	47
Renal	34
Senility	199
Carcinoma	142
Tuberculosis	8
Other Conditions (Medical)	337
Gynaecological Cases	91
Burns	82
Cuts and Bruises	236
Post-Operative Care	228
Varicose Ulcers	116
Other Conditions (Surgical)	198
	<u>2501</u>
Maternity Cases	5
Puerperium Only (Hospital Confinements)	113
	<u>2619</u>

Of the 2501 cases 828 were visited on 12851 occasions mainly to give special treatment as shown below:-

	No. of Cases	No. of Visits for Injections etc.
Enemas	121	270
Antibiotic Injections	75	625
Streptomycin Injections	11	238
Liver Injections	21	209
Cytamen and Vitamin B Injections	355	6652
Diuretic Injections	30	558
Insulin Injections	24	1821
Other Injections	128	2271
Gynaecological Cases		
Douching or changing pessaries	63	207
	<hr/> 828	<hr/> 12851

AGE-GROUP SUMMARY

	1971	1970	1969
No. of patients aged under 5 years	138	188	190
5 - 65 years	823	849	879
Over 65	1540	1536	1526
Total	<hr/> 2501	<hr/> 2573	<hr/> 2595
Total No. of Visits	<hr/> 54171	<hr/> 53774	<hr/> 53876

NURSING BENEVOLENT FUNDS

Local Nursing Benevolent Committees throughout the County again augmented nursing equipment provided by the Public Health Department, such as commodes, Zimmer walking aids, etc. Financial aid was given to the chronic sick and towards Home Help expenses. Several patients were given holidays. Funds were made available for the Nursing Superintendent to provide Christmas parcels for the sick and elderly. These parcels were distributed by the District Nurses. Necessitous families, chronic sick and elderly people were given help with food, fuel and coal.

SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1971 HEALTH VISITING

	Welfare Visits to elderly	Home Help Visits	Tuberculosis Visits	Mental Health Visits	Infectious Diseases	Miscellaneous Visits	Child Welfare Home Visits			Child Welfare Clinics			Schools			
							Children born 1971	Children born 1970	Children born before 1970	Children born 1971	Children born 1970	Children born before 1970	At Drs. School Inspection	At Nurses School Inspection	No. of Children seen and treated	Minor Ailments	Home Visits
Airlie	113	10	2	18	2	7	267	192	260	-	-	-	88	933	22	21
Arbirlot	223	24	2	1	13	56	247	113	227	-	-	-	96	587	-	5
Auchterhouse	213	68	16	-	1	1	345	383	446	126	126	67	199	1587	-	23
Brechin 1	277	57	13	-	-	-	-	-	-	-	-	-	-	647	-	-
Brechin 2	343	191	31	-	-	-	666	691	587	-	-	-	-	676	-	-
Careston	874	33	13	96	-	-	-	-	-	-	-	-	117	1538	3	60
Carnoustie 1	903	134	-	120	-	188	-	-	-	-	-	-	-	-	-	-
Carnoustie 2	618	146	-	-	-	97	-	-	458	-	-	-	128	983	-	-
Edzell	87	67	12	3	-	5	364	590	-	-	-	-	-	-	-	-
Forfar 1	424	347	-	-	-	24	-	-	-	-	-	-	-	-	-	-
Forfar 2	93	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frickheim	399	19	6	18	1	-	133	147	196	-	-	-	172	874	-	-
Glenisla	-	-	16	9	-	1	77	61	99	-	-	-	63	410	-	-
Hillside	777	90	5	96	-	268	314	315	315	-	-	-	153	1218	10	27
Inverarity	845	13	21	10	15	85	187	156	448	-	-	-	29	339	5	45
Inverkeilor	202	32	-	13	-	-	373	408	302	-	-	-	-	441	2	63
Kirriemuir	324	333	2	-	12	-	495	413	482	473	328	268	516	766	18	19
Kirriemuir L.	283	18	2	-	-	-	186	255	288	532	380	289	26	674	-	-
Letham	669	34	19	56	-	49	218	184	352	-	-	-	90	1000	-	6
Monifieth	304	75	16	-	-	19	-	-	-	-	-	-	-	-	-	-
Montrose 1	858	396	69	33	-	-	11	1	-	-	-	-	-	1991	1	51
Montrose 2	695	538	50	-	-	-	-	-	-	-	-	-	-	2247	-	113
Montrose 3	725	415	96	-	-	-	-	-	-	-	-	-	-	2428	4	65
Murroes	428	41	5	12	1	-	355	353	246	-	-	-	127	401	22	11
Newbigging	341	17	-	1	-	165	318	377	405	-	-	-	140	896	-	6
Newryle	383	17	11	23	-	86	313	322	196	52	69	46	282	1892	4	-
Southesk	1282	78	23	74	-	4	573	422	358	38	31	4	-	263	7	22
	12683	3205	430	583	45	1055	5442	5383	5665	1221	934	674	2226	22791	98	537

SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1971

	Total Hours on Duty				Nursing Cases						Total No. of Visits			Maternity	Ante-Natal visits	Ante-natal clinics with G.P.	Post-Natal	CytoLOGY at G.P. Clinic
	Nursing	C.W. Clinics and Health Visiting	Mental Health	Schools	Total	Children under 5 years	Patients 5 yrs and under 65	Patients 65 yrs and over	Domiciliary Confinements	Delivered in Hosp. and re-turned Home	Children under 5 years	Patients 5 yrs and under 65 years	Patients 65 years and over					
Airlie	963	604	6	45	1618	5	31	27	-	-	26	223	720	-	136	-	35	-
Arbirlot	1661½	273	-	30	1964½	13	37	33	-	2	57	352	1446	11	71	10	48	-
Auchterhouse	1058	545	11½	36½	1651	2	19	35	1	21	20	247	1141	135	74	-	35	-
Brechin 1	1701	94	-	12	1807	1	13	64	-	1	3	100	1962	9	142	218	-	-
Brechin 2	1491½	63	-	14	1568½	1	9	54	-	-	2	80	1810	-	163	14	-	-
Careston	738	1002	49	50	1839	-	16	21	-	1	1	313	688	8	541	-	355	-
Carnoustie 1	1872½	252½	-	-	2125	3	38	70	1	10	21	1318	2213	109	20	-	-	-
Carnoustie 2	1926	224	-	-	2150	2	33	85	1	4	16	406	3312	40	20	-	-	-
Edzell	967	851	1	65	1884	-	11	50	-	-	-	137	856	-	81	-	-	-
Forfar	2027	250½	-	-	2277½	16	95	205	-	1	35	568	2751	3	-	-	-	-
Forfar P/T 2	961½	48	-	-	1009½	-	-	-	-	-	-	468	1175	-	-	-	-	28
Frickheim	1139	346½	12	46½	1544	13	19	67	-	-	142	339	1192	-	84	350	28	65
Glenisla	397½	149½	2	21½	570½	2	4	5	-	-	9	367	54	-	36	-	-	-
Hillside	1073	740	14	48	1875	14	53	59	-	1	115	605	1497	11	153	-	50	-
Inverarity	971½	1126½	9	31½	2138½	2	16	22	-	4	7	239	593	13	202	-	135	-
Inverkeilor	1326½	398	59	35½	1819	3	34	39	2	2	41	454	1653	40	56	110	33	22
Letham	1117	602½	31	30½	1781	3	42	41	-	-	5	516	1035	-	74	-	1	-
Monifieth	1443½	497	-	-	1715½	9	28	60	-	45	45	202	1697	241	34	-	-	-
Montrose 1	1522½	497½	5	56	2081	-	47	108	-	-	-	542	3037	-	-	-	-	-
Montrose 2	1584	311	-	58	1953	-	22	115	-	-	-	485	2245	-	-	-	-	-
Montrose 3	1470½	477½	2	79	2029	1	44	117	-	-	-	367	2215	-	-	-	-	-
Murroes	1190	627	9	69	1895	11	27	28	-	-	39	310	1305	-	82	-	47	-
Newbigging	1206	673½	1	30½	1911	9	45	34	-	7	22	923	1412	91	157	-	41	-
Newtyle	1478	325	-	56	1859	13	51	47	-	11	125	747	1464	99	77	68	2	-
Southesk	895	524	17	14½	1450½	3	8	29	-	1	63	364	872	13	225	-	-	-
Kirriemuir	1104	818	-	97½	2019	2	47	86	-	-	-	332	1646	-	170	387	2	-
Kirriemuir L.	1427½	702½	6½	50	2186½	10	34	39	-	2	42	516	1824	13	65	380	-	-
	34712½	12797½	235	976½	48721½	138	823	1540	5	113	836	11520	41815	836	2663	1537	812	

SUMMARY OF HEALTH VISITORS' WORK FOR THE YEAR 1971

	Ante-Natal	Post-Natal	Ante-natal at G.P. Clinic	Post Natal at G.P. Clinic	Health Education	Tuberculosis	Mental Health Visits	Miscellaneous	Infectious Diseases	Child Welfare Home Visits			Child Welfare Clinic			Clinics					Schools No. of children seen and treated						Mantoux Test	Children received B.C.G.	Total Hours on Duty					
										Children born 1971	Children born 1970	Children born 1967-69	Children born 1971	Children born 1970	Children born 1967-69	Mothercraft	Eye	Orthopaedic	M.D.	Cytology	Mothers' Advisory	At. Drs. Inspection	At. Nurse's Inspection	At School Clinic	Home Visits	Children immunised against Poliomyelitis			Children Immunised against Diphtheria	Health Visiting and C.W. Clinics	Mental Health	School Nursing	Total	
Arbroath 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	303	36	4	.	.	1082	1399	44	269	.	.	.	.	.	.	377½	377½
Arbroath 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	141	920	50	.	.	.	293	.	.	.	130	130
Arbroath 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	.	.	.	.	745	425	5	74	4	4	93	.	.	.	81½	81½
Arbroath 4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	462	814	.	.	.	2287	3823	5	151	.	.	359	.	.	.	1029	1029
Arbroath 5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	16	.	.	.	.	34	135	.	.	.	359	147	.	.	.	40	40
Brecbin 1	.	.	67	63	.	.	.	60	199	628	459	663	721	675	515	.	321	.	4	27	30	1402	2381	40	38	200	188	8	.	1461	.	276	1737	
Brechin P/T	68	.	47	114	223	16	276	.	4	280
Carnoustie	314	79	322	10	.	4	.	157	207	718	879	842	635	537	366	6	.	.	.	70	.	173	890	21	18	108	107	.	.	1757½	21½	59	1838	
Forfar 1	488	186	.	.	182	17	20	42	11	665	397	742	533	487	216	121	682	426	34	58	71	.	6	32	9	.	.	.	.	1392½	31	10	1433½
Forfar 2	.	.	.	.	.	25	1	7	518	139	136	.	10	11	1	.	98	36	5	14	.	2083	8179	38	200	562	406	1173	577	608	.	1176	1784
Forfar 3	.	.	.	.	.	.	.	.	.	3	11	15	.	.	.	.	69	31	4	.	.	.	743	8	.	.	.	260	223	22	.	118	140
Monifieth	164	101	.	.	.	.	1	21	17	769	875	1010	592	855	532	.	.	2	1	12	17	489	1046	.	41	175	179	67	46	1701½	1	94½	1797
Monifieth P/T	74	7	.	.	.	.	.	1	6	40	2	822	54	20	13	.	.	.	.	.	.	395	3089	3	48	40	.	122	70	410	.	159	569
Montrose 1	303	60	401	49	.	.	30	3	188	688	647	916	444	557	413	109	198	.	20	82	38	1123	.	24	20	216	209	19	154	1665	26	183	1874	
Montrose 2	381	134	428	22	.	.	64	6	58	555	606	622	590	393	267	74	140	.	11	104	27	686	.	7	29	60	60	153	5	1665	16	159	1849	
Totals	1724	567	1218	144	182	146	116	365	1204	4252	4126	5855	3579	3535	2323	310	2357	1345	83	367	183	10680	23036	277	897	1365	1153	2906	1222	10958½	95½	3896½	14950½	

HEALTH CENTRES AND CLINICS

BRECHIN HEALTH CENTRE

During the year consideration of alternative plans and discussion amongst authorities continued regarding the proposed Brechin Health Centre. Progress continued satisfactorily and it was hoped that Angus County Council would soon be given an opportunity to consider the rental exercise.

ARBROATH HEALTH CENTRE

In June 1971 the Scottish Home and Health Department produced the description of function and schedule of accommodation for the Arbroath Health Centre and we now await sketch plans from the Regional Hospital Board's architect on behalf of the Secretary of State.

KIRRIEMUIR HEALTH CENTRE

During 1971 approval in principle was given to the Secretary of State building a Health Centre in Kirriemuir for primary medical care by the General Practitioners and the services of the Local Health Authority. There remains the difficulty in siting such a Centre within the Burgh.

CARNOUSTIE HEALTH CENTRE

In September, 1971 at a Meeting in the Executive Council, it was agreed in principle that a Health Centre was desirable for general medical services, the Local Health Authority services and perhaps the Hospital services.

FRIOCKHEIM HEALTH CENTRE

The Health Committee, at their Meeting in June 1971, agreed to consider the Local Health Authority participating with the General Practitioner and possibly the Regional Hospital Board in an experimental Health Centre for the village of Friockheim and the surrounding area. The Centre would be built by the Secretary of State.

IMMUNISATION

DIPHTHERIA, TETANUS AND WHOOPING COUGH (PERTUSSIS) IMMUNISATION

Almost all children are given protection in infancy against all three diseases by Triple Vaccine. A combined vaccine against Diphtheria and Tetanus is generally used for school children, most of whom require only re-inforcing doses to "boost" the protection given them in infancy. This combined re-inforcing dose is given to school entrants, aged five or six years. School "leavers" aged approximately fourteen years are given a re-inforcing injection against tetanus only.

The following tables show the number of immunisations done in 1971 in pre-school and school children, with comparative figures for the total number immunised in 1971, 1970 and 1969.

	Children born 1967-1971	Children born 1966 or earlier	Total Number of Completed Primary Immunisations		
			1971	1970	1969
1. Diphtheria, Tetanus and Whooping Cough	682	12	694	1093	920
2. Diphtheria and Tetanus	5	17	22	16	27
3. Tetanus only	2	748	750	779	803
Total	689	777	1466	1731	1452

REINFORCING OR "BOOSTER" IMMUNISATIONS

	Children born 1967-1971	Children born 1966 or earlier	1971	Total	
				1970	1969
1. Diphtheria, Tetanus and Whooping Cough	158	192	350	567	631
2. Diphtheria and Tetanus	7	737	744	971	694
3. Tetanus only	5	869	874	187	126
4. Diphtheria only	-	2	2	6	1
Total	170	1800	1970	1731	1452

POLIOMYELITIS IMMUNISATION

Primary immunisation is done in infancy by three doses of oral vaccine. Re-inforcing single doses are offered to school children in the age group five to six years old and in the age group thirteen to fourteen years old.

PRIMARY IMMUNISATION

Children born in 1967-1971	Children born in 1965-70	Young persons born before 1965	Total number of primary immunisations		
			1971	1970	1969
38	649	287	974	1154	965

RE-INFORCING IMMUNISATION

	1971	1970	1969
Young persons of all ages	1784	1413	1265.

MEASLES IMMUNISATION

NUMBER OF CHILDREN IMMUNISED IN 1971

Children born 1966-1971	Children born 1965	Children born 1964 or earlier	Total		
			1971	1970	1969
837	20	21	878	1151	464

RUBELLA (GERMAN MEASLES) VACCINATION

In accordance with Local Health Authority Services Circular 10/1970, early in 1971 all girls between their eleventh and fourteenth birthdays were offered protection by vaccination against rubella infection. The aim is to ensure that all girls are offered this protective vaccination before reaching child-bearing age, because of the known association of certain foetal abnormalities and maternal infection in pregnancy.

Early in 1971 the parents of all girls born in the years 1957, 1958 and 1959 were offered, through the School Health Service, rubella immunisation for their daughters. Most of the immunisations were done by the School Doctors and General Practitioners did a small proportion.

During the School Session 1971/72 all girls born in 1960 will be offered immunisation. A start was made on this age group in the autumn of 1971.

NUMBER OF RUBELLA VACCINATIONS DONE IN 1971

Girls born in	1957	1958	1959	1960	Before 1957	Total
	406	431	482	92	14	1425

SMALLPOX VACCINATION

In July 1971 information was received from the Scottish Home and Health Department that the Joint Committee on Vaccination and Immunisation of the Central and Scottish Health Council had recently reviewed the indications for offering smallpox vaccination in Great Britain at the present time. The Sub-Committee concluded that vaccination against smallpox need not now be recommended as a routine procedure in early childhood. The Sub-Committee emphasised that all travellers to and from areas of the world where smallpox is endemic or countries where eradication programmes are in progress should be protected by recent vaccination.

Routine smallpox vaccination was therefore discontinued at the County Child Welfare Clinics.

The following table shows the number of primary vaccinations, re-vaccinations and the total number of vaccinations against smallpox recorded in the County in 1971, with comparative figures for 1970 and 1969.

	1971	1970	1969
Primary Vaccinations	898	869	666
Re-Vaccinations	639	655	682
Total	1537	1524	1348

Most of those revaccinated were emigrants or travellers abroad who had to comply with the international regulations as enforced by the countries to which or through which they were travelling.

PREVENTION, CARE AND AFTER CARE

TUBERCULOSIS

NOTIFICATIONS	1971	1970	1969
Number of cases of pulmonary tuberculosis notified	12	14	18
Number of cases of non-pulmonary tuberculosis notified	1	1	4
All cases of tuberculosis notified	13	15	22
Number of deaths from pulmonary tuberculosis	1	-	4
Number of deaths from non-pulmonary tuberculosis	-	-	-

PULMONARY TUBERCULOSIS

NOTIFICATIONS DURING YEAR	1971	1970	1969
Age Group			
5 - 14 years	1	-	-
15 - 24 years	1	-	3
25 - 34 years	2	2	2
35 - 44 years	2	2	2
45 - 54 years	2	3	3
55 - 64 years	-	3	6
65 years and over	4	4	2
	12	14	18

It is of interest that one-third of the cases of pulmonary tuberculosis notified are aged 65 years or more.

The death from tuberculosis in 1971 was that of a man aged over 75 years and death was due to the late effects of an earlier infection.

	Pulmonary	Non-Pulmonary
Number of cases treated in hospital	11	1
Number of cases treated at home	1	-

Number of persons resident in the County on the Tuberculosis Register at the end of the year:-

	1971	1970	1969
Pulmonary	233	285	271
Non-Pulmonary	47	55	54

The place of residence of those persons resident in the County as at 31st December, 1971 is shown in the following table:-

Residing in:-	Pulmonary	Non-Pulmonary
Brechin	19	10
Carnoustie	21	-
Forfar	40	5
Kirriemuir	18	7
Monifieth	11	1
Montrose	32	7
Landward	92	17

During the year Health Visitors and District Nurses paid visits to the households of those persons. They advised about the care of cases and the prevention of infection and arranged X-rays and attendance at chest clinics for family and other close contacts. They visited defaulters from X-ray sessions and clinics. The District Nurses gave home nursing care when necessary.

B.C.G. VACCINATION

In November and December 1971 all children born in 1958 were offered B.C.G. vaccination at their schools.

Number of children resident in County tested and vaccinated:-

School	Mantoux Tested	Number Negative	Percentage Negative	Number Vaccinated
Forfar Academy	205	202	98.5	194
Montrose Academy	168	165	98.2	153
Brechin High School	127	123	96.9	116
Carnoustie High School	122	112	91.8	106
Webster's High School	99	97	98.0	94
Newtyle School	51	51	100	50
Arbroath High School	50	49	98.0	47
Arbroath Academy	35	34	97.1	30
Murroes School	11	11	100	11
Total	868	844	97.2	801

The figures shown in the above table for Arbroath Academy and Arbroath High School do not include children resident in the Burgh.

Number of children resident in Arbroath Burgh tested and vaccinated:-

School	Mantoux Tested	Number Negative	Percentage Negative	Number Vaccinated
Arbroath High School	162	153	94.4	145
Arbroath Academy	112	102	91.1	99
Total	274	255	93.1	244

Total number of children given B.C.G. vaccination (County and Arbroath Burgh)

1971	1970	1969
1045	1392	630

All the children who gave a positive reaction to the Mantoux test attended the nearest Chest Clinic or M.M.R. Unit for Chest X-ray except one girl who had already had a satisfactory chest X-ray just before testing. In all cases there was no evidence of active disease.

MASS MINIATURE RADIOGRAPHY

Mass Miniature Radiography is arranged every third year for teachers and other members of school staff, for example School Meals Personnel, janitors and school auxiliaries. At the same time members of the Public Health and Social Work Departments, and members of the Education Department who are not on Schools' Staff are requested to attend for chest X-ray. This screening was due in the autumn of 1971, and was done in November. The Western Regional Mobile M.M.R. Unit established, by arrangement between the Medical Officer of Health and the Director of Education, temporary centres in sequence at Carnoustie High School, Arbroath High School, Montrose Academy, Brechin High School, Webster's High School and Forfar Academy. Each head of the Department concerned arranged for those of his staff who were to be X-rayed to attend at the nearest Centre.

As a result of this survey one case of pulmonary tuberculosis was discovered.

Also in connection with the protection of children against tuberculosis the Public Health Department and Social Work Department co-operate to ensure that all adults who are Child Minders or who supervise Pre-School Play Groups etc. have chest X-rays done — initially and at three yearly intervals.

CERVICAL CYTOLOGY

This service continued as in previous years since 1967. The tests are taken by Public Health Department doctors, and the slides are sent for examination to the Cytology Department at Maryfield Hospital, Dundee.

	Number of clinics held	Number of women attending	Number of positive results
Brechin	5	27	-
Carnoustie	7	70	1
Forfar	8	72	1
Monifieth	4	12	-
Montrose	16	186	-
Total	40	367	2

The number of positive smears was .54% of women tested.

	1971	1970	1969
Number of clinics held	40	30	34
Number of women attending	367	278	259
Positive results	2	1	5

During 1971, by arrangement with the Consultant Pathologist at Maryfield Cytology Laboratory, all women living in Angus who had had Cervical Cytology smears taken in 1964 were re-tested either by their own doctors or at the Public Health Clinics. Those done at the Clinics are included in the above figures. Towards the end of the year a start was made on re-testing those previously done in 1965. This group will be completed next year.

CHIROPODY

Treatment of persons in Old Age Pensioner Age-Group and in Chronically Sick and Disabled Group.

	1971	1970	1969
Number of persons treated	2913	2778	2439
Number of treatments given	11045	11283	10864

During 1971 the County Council employed four full-time Chiropodists and one-part-time Chiropodist (appointed in February 1971). They provided the following service:-

	Number of patients and place of Treatment				
	Clinic	Patients' own Home	Welfare Homes	Others	Total
Burgh of Arbroath	466	165	83	-	714
Montrose	128	132	54	-	314
Kirriemuir	82	157	2	-	241
Monifieth	47	67	-	27	141
Carnoustie	33	32	50	-	115
Brechin	103	92	40	-	235
Forfar	201	214	78	20	513
Landward Area	199	400	41	-	640
Total	1259	1259	348	47	2913
Discontinued	100	210	56	6	372

Patients receiving treatment as at 31st December, 1971	1159	1049	292	41	2541
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Number of chronically sick and disabled persons included in the above table.

	Males	Females	Total
Living in own home	45	86	131
Living in Welfare homes	6	15	21
Total	51	101	152

As well as in each of the Burghs, Clinics were held as before in Public Halls at Edzell, Muirhead, Ferryden and Tealing. The Chiropodists also gave treatment at sessions in the Duty Rooms of the District Nurses' Houses at Letham, Glamis, Hillside, Newtyle and Friockheim.

Regular visits were paid to all the Old Peoples' Welfare Homes in the County and in Arbroath Burgh.

42.3% of patients were treated in their own homes. In the burghs treatment at home is given to those who are not fit to walk to the clinic. In the rural areas home treatment is given because lack of transport for patients to the nearest clinic. Patients who have no incapacity or transport difficulty are encouraged to attend clinics for treatment.

HOME HELP SERVICE

	1971	1970	1969
Number of cases provided with a Home Help	268	241	245

Distribution of cases in 1971:-

	Aged over 65 years	Chronic sick etc. under 65 years
Burgh of Brechin	37	4
Carnoustie	8	4
Forfar	69	9
Kirriemuir	29	1
Monifieth	4	-
Montrose	60	5
Landward Area	36	2
Total	243	25

The 25 cases under the age of 65 were given Home Help assistance on account of Arthritis (1), Bronchitis (1), Parkinson's Disease (1), Multiple Sclerosis (9), Cancer (1), Paralysis (3), Heart condition (1), Convalescence after operation (3), Mental Illness (1), General Debility (1), Asthma (1), Childbirth (2).

Most cases needed their Home Helps for from one to three hours daily, but without this assistance many would have had to be admitted to a Welfare Home or Hospital.

HANDICAPPED REGISTER AND HANDICAPPED CHILDREN

This is a Register of children from birth up to the age of 16 years who are physically or mentally handicapped. The Register records the handicap and other details including the type of treatment and education or training being given or required. At the end of 1971 there were on the Register 196 children (108 boys and 88 girls) in Angus, including those in the Burgh of Arbroath. The Arbroath Handicapped Register is kept by the Arbroath Medical Officer of Health with whom the Angus School Health Service exchanges information, for example in the case of pre-school age children who must be assessed to decide whether they are suitable for ordinary or special education on account of physical or mental disability. There were 44 children (21 boys and 23 girls) on the Arbroath Handicapped Register at the end of 1971.

During the school session ending 31st July, 1971 six boys and four girls between the ages of three and sixteen attended Dundee School for the Deaf. Two boys and one girl were weekly boarders at the Dundee Hostel, the others travelled daily. There were also handicapped pupils at Trefoil School, Edinburgh (1 girl), Linn Moor Residential Occupational Centre, Aberdeenshire (2 boys), Condoval Hall, Shrewsbury (1 girl), Stanmore House, Lanark, (3 boys and 1 girl), Royal Blind School, Edinburgh (1 girl), and Rudolf Steiner School, Aberdeenshire (1 boy, 1 girl).

Among handicapped children attending ordinary day schools in Angus were three severely handicapped cases of spina bifida and two boys with considerable residual physical handicap after road accidents.

HANDICAPPED REGISTER — ARBROATH

Number on Register as at 31st December, 1971

Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 or 16 or school leaving age	Total all ages
Partial Hearing	M	-	-	-	-	1	1	1	-	3
	F	-	-	-	-	-	-	2	-	2
Partially Sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	1	-	-	1	1	-	3
Mental Defect - educable	M	-	-	-	-	-	1	4	1	6
	F	-	-	-	-	-	-	2	4	6
Mental Defect - ineducable	M	-	-	-	-	-	3	1	2	6
	F	-	-	-	-	-	-	-	1	1
Mental Defect - undetermined	M	-	-	-	1	-	-	-	-	1
	F	-	-	-	-	-	1	-	-	1
Brain Damage Cerb. Palsy	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	3	-	3
Other brain damage	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Spina Bifida	M	-	-	-	-	1	-	-	-	1
	F	1	-	-	-	1	2	-	-	4
Defect of Spine	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Paralysis	M	-	-	-	-	-	-	-	1	1
	F	-	-	-	-	-	-	1	-	1
Heart Disease	M	-	-	-	-	1	1	-	-	2
	F	-	-	-	-	-	-	-	-	-
Cleft Palate	M	-	1	-	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-
Total	M	-	1	-	1	3	6	6	4	21
	F	1	-	1	-	1	5	10	5	23
Total Both Sexes		1	1	1	1	4	11	16	9	44

HANDICAPPED REGISTER — ANGUS
Number on Register as at 31st December, 1971
Main Disability by Age and Sex

		Under 1	1 to Under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 to 16 or school leaving age	Total all ages
Deaf	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Partial Hearing	M	-	-	-	-	1	-	1	-	2
	F	-	-	-	-	-	3	3	1	7
Blind	M	-	1	-	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-
Partially Blind	M	1	-	1	-	-	-	1	-	3
	F	-	-	-	-	-	-	-	1	1
Mental defective	M	-	-	-	-	-	-	7	7	14
Educable	F	-	-	-	-	-	3	6	5	14
Mental defective	M	-	-	1	-	-	5	4	11	21
Ineducable	F	-	-	-	-	-	5	6	6	17
Mental defective	M	-	-	-	-	-	-	-	-	-
not trainable	F	-	-	-	-	-	-	2	-	2
Mental defective	M	-	-	1	1	-	6	4	-	12
Undetermined	F	-	-	1	-	-	4	-	-	5
Maladjusted	M	-	-	-	-	-	-	-	1	1
	F	-	-	-	-	-	-	-	-	-
Brain Damage	M	-	-	-	2	-	5	2	1	10
Cerb. Palsy	F	-	-	-	1	-	-	1	1	3
Other Brain	M	-	-	-	1	-	1	-	-	2
Damage	F	-	-	1	-	-	1	1	-	3
Epilepsy	M	-	-	-	-	-	3	3	-	6
	F	-	-	2	-	1	1	1	-	5
Spina Bifida/ Hydrocephalus	M	-	1	-	-	-	2	-	-	3
	F	-	-	-	1	-	1	3	-	5
Neuro-Psychiat- ric Defect	M	1	-	-	-	-	1	-	-	2
	F	-	-	-	-	-	1	-	-	1
Deformity of Lower Limb(s)	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	1	-	2
Other Ortho- paedic Defect	M	-	-	-	1	-	-	-	-	1
	F	-	-	-	1	-	-	-	-	1
Heart	M	-	-	-	-	1	-	3	-	4
	F	1	1	-	2	1	1	-	-	6
Diabetes	M	-	-	-	-	1	4	4	1	10
	F	1	-	-	-	-	1	3	1	6
Other Metabolic Condition	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	1	-	-	-	-	1
Other Disabilities	M	-	2	1	4	1	4	2	-	14
	F	-	1	1	1	1	4	1	-	9
Total	M	2	4	4	9	4	33	31	21	108
	F	2	2	5	7	3	26	28	15	88
Total Both Sexes		4	6	9	16	7	59	59	36	196

HEALTH EDUCATION

An account of the formal Health Education done in schools by the School Medical Officers and Health Visitors is contained in the School Health Service Section of this Report.

During the year the Scottish Health Education Unit organised a number of campaigns throughout Scotland. In Angus use was made of leaflets and posters provided by the Scottish Health Education Unit, and during the periods when campaigns were being held the doctors and nurses of the Public Health Department made a point of giving advice on the particular subject at clinics and home visits. Among these campaigns were Family Planning, Smoking in pregnancy, Smoking in Young People and Immunisation.

A number of health talks were given on request by the medical and nursing staffs to members of Church Guilds, Womens' Institutes, etc.

COMMUNICABLE DISEASES

NOTIFIABLE DISEASES

280 cases of notifiable infectious diseases were recorded in 1971.

Disease	1971	1970	1969
Anthrax	-	-	2
Cerebro-Spinal Fever	8	2	1
Dysentery	44	50	31
Erysipelas	6	4	6
Food Poisoning	4	19	3
Hepatitis, Viral Infectious	38	28	47
Influenzal Pneumonia	1	9	3
Malaria	1	2	1
Measles	85	431	238
Pneumonia, Acute Primary	21	37	15
Scarlet Fever	28	49	54
Whooping Cough	44	30	8
Total	280	661	409

The total incidence is considerably less than in 1970 - a drop of 381, largely due to a decrease of 346 in notified cases of measles. In Britain measles tends to run in cycles of two or three years and has been notifiable only since 1969, but the low incidence in 1971 would seem to be at least to some extent due to measles immunisation.

The cases of cerebro-spinal fever were not related. There was 1 fatal case - a girl of 19 months in the Brechin District in October. 2 of those notified were finally diagnosed as viral meningitis.

The distribution of dysentery cases was Carnoustie 11, Forfar 1, Landward 32. Of the 11 cases in Carnoustie 8 were pre-school children and 1 was the mother of 3 of those children. They were all members of 4 families who were in frequent close contact. 31 of the Landward cases occurred in Strathmartine Hospital, a hospital for mental defectives.

The distribution of viral infectious hepatitis was Forfar 9, Carnoustie 4, Brechin 2, Kirriemuir 1, Montrose 1, Landward 21. 5 of the Forfar cases were in adjoining streets in the South-East end of the Town and the children in the households had been playing together. 1 of the Landward cases was in the same class at school as 1 of those Forfar

cases. 2 other Forfar cases were associated with 3 cases on a farm in the Landward area. Other small groups of associated cases were in households known to have close and frequent contact, particularly among the children. These were 3 children involving 2 households in Auchterhouse District and 6 cases in Letham involving 3 households. The Letham cases occurred at the end of the year and the outbreak continued into 1972.

There were no outbreaks of food poisoning in 1971. Of the 4 notified cases 2 were a father and schoolgirl daughter in the Landward Area. The other 2 cases were unconnected.

All cases of scarlet fever were mild.

NON NOTIFIABLE COMMUNICABLE DISEASES

BRUCELLOSIS

BRUCELLOSIS IN MILK

In April 1971 the Bacteriology Laboratory at Dundee University began to accept samples of milk for milk culture testing. This test demonstrates the presence of the causal organism, *Brucella abortus*, in the milk, whereas the milk ring test merely provides useful guidance as to whether milk is infected. Previous attempts to culture the organism at Stracathro Hospital had on the whole been unsuccessful. Samples were taken from all the dairy herds in Angus and milk from 18 farms gave positive results. As soon as each positive result was received by the Medical Officer of Health the farmer was at once told of it and its significance was emphasised and discussed. From 16 of these farms the Milk Marketing Board was already collecting the milk and almost all of it was already going for pasteurisation. The Board's Officer was told and he arranged that all milk would be pasteurised and that this pasteurisation would continue. Some milk was kept at the farms to be used by the farmers' and farm-workers' households. The danger to these people was pointed out and the provision of an alternative supply or boiling of the milk was very strongly advised.

The two producers who did not send their milk to the Milk Marketing Board presented more difficulty. The larger of the two supplied a retailer and also sold his milk and cream at a Milk Bar. After considerable discussion the producer agreed to send all his milk to the Board for pasteurisation and to provide an alternative supply of milk and cream for his customers, including the retailer. By the end of the year the retailer had given up business. The other producer agreed, also after discussion, not to retail or to supply to others for retail any of his milk. All the milk he produced was thereafter sent to the Board for pasteurisation. This producer had intended for some time to give up business and had done so by the end of the year. Frequent sampling of the milk sold by both was continued.

BRUCELLOSIS IN HUMANS

In 1971 4 new cases of brucellosis were confirmed serologically and reported to the Medical Officer of Health. It is almost certain that other cases occurred. Of the 4, 2 were schoolboys. The source of infection in one, a boy aged 9 living in a burgh was not apparent, but the other a boy aged 13 living in the Landward Area, is the son of a farm-worker on one of the farms from which the milk gave a positive culture test. He may have contracted the infection either by drinking the milk or by direct contact with infected material on the farm. No other member of the household was affected (this was proved by blood tests,) and by the time the boy was known to have brucellosis the farmer had provided an alternative milk supply for his workers. The other cases

were a farmer and a school teacher, who drank a good deal of untreated milk. During the year several old cases of brucellosis were known to have had incapacitating relapses.

VENERAL DISEASE

There was again an increase in the number of new cases of venereal disease. Comparative tables for five years are:-

	Acquired Syphilis	Congenital Syphilis	Gonorrhoea of Genital Tract	Other Venereal Conditions	Total
1967	-	-	8	24	32
1968	-	-	18	34	52
1969	-	-	15	18	33
1970	1	-	18	35	54
1971	5	-	26	65	96

MENTAL HEALTH

There were 17 mental defectives under Statutory Guardianship, 7 of these residing in Local Authority Welfare Homes. The remainder live in their own homes under related guardianship. Home visits were paid to all these people by the Medical Staff, and others were visited for ascertainment. 56 Visits were paid by the Medical Staff and 583 visits by the Nursing Staff.

During the year there were 20 Clinic Sessions held in the Burgh Clinics in which 74 mental defectives were seen at 107 consultations by a Specialist.

MEDICAL EXAMINATIONS FOR SUPERANNUATION PURPOSES

In 1971 the Medical Staff examined 167 persons for their suitability to be accepted for the Superannuation Scheme.

HOME VISITS TO APPLICANTS FOR RE-HOUSING ON MEDICAL GROUNDS

In 1971 the Medical Staff visited at home 190 persons to assess their need for re-housing for medical reasons. The distribution of visits was Brechin 47, Carnoustie 22, Forfar 64, Montrose 50 and the Landward Area 7.

FOOD SUPPLIES

Details of the work done in relation to the administration of the various Acts, Orders and Bye-Laws will be found in the report by the County Sanitary Inspector.

PORT HEALTH ADMINISTRATION

During the year 119 vessels arrived at Montrose harbour from foreign ports with cargoes of:- General mixed cargo 53, Fertiliser 32, Wood boxes 9, Onions 7, Paper 5, General mixed cargo and paper 1, Oil Rig equipment 2, Maize 2, Starch 2, Flax 1, Marble chips 1, Pumice 1, Light in ballast 3.

FACTORIES ACT 1961

This Act is administered by the Town Council of the Burghs and the County Council in respect of the landward area. The sections of the Act which concern local authorities are those dealing with cleanliness, overcrowding, temperature and ventilation, drainage of floor area and sanitary conveniences.

In regard to these matters the inspections are carried out by the Burgh Surveyor/ Sanitary Inspectors in the Burghs, and in the landward area by the County Sanitary Staff.

Annually the Medical Officer of Health is required to make a return regarding the number of factories in his area, visits paid and defects noted and how remedied. The following is the return for 1971 and in respect of the 7 areas under my jurisdiction.

Prescribed Particulars of the Administration of the Factories Act, 1961.

FACTORIES IN EACH AREA (NO. of VISITS PAID IN 1971 IN BRACKETS)

	Brechin	Carnoustie	Forfar	Kirriemuir	Monifieth	Montrose	Landward
1. Factories in which sections 1, 2, 3, 4 and 6 are enforced by Local Authority	19 (8)	13(6)	3(3)	19(19)	15(15)	86 (19)	-(-)
2. Factories not included in (1) in which section 7 is enforced by the Local Authority	40 (18)	24(14)	76(30)	26(27)	-(-)	-(-)	114(73)
3. Other premises in which section 7 is enforced by the Local Authority	2(1)	-(-)	-(-)	-(-)	-(-)	-(-)	1(1)
Total	61(27)	37(20)	79(33)	45(46)	15(15)	86(19)	115(74)

No defects were found in the Burghs of Brechin, Carnoustie, Forfar, Monifieth.

No defects were found in the Landward Area.

In Montrose Burgh there were 2 instances in which the standard of cleanliness was found to be unsatisfactory and this was remedied.

In Kirriemuir Burgh 2 defects were noted and remedied.

BURGH OF BRECHIN

For the year 1971 the Registrar General has estimated the mid year population for the Burgh to be 6702 which compares with 7198 in the 1961 census year and with 6735 estimated in 1970. 89 live births were allocated to the burgh. There were 7 illegitimate births and 2 still births.

66 marriages were registered.

There were 98 deaths corrected for residence. The chief causes of death were Heart Disease 36, Cancer 25 (lung cancer 7), Cerebro-vascular Disease 15, Diabetes 2. Of the 98 deaths, 75 persons were over the age of 65 years. There were 2 infant deaths (under 1 year).

During the year there were 9 cases of infectious diseases notified and confirmed Viral Infectious Hepatitis, 2, Acute Primary Pneumonia 1, Pulmonary Tuberculosis 4, Whooping Cough 2.

BURGH OF CARNOUSTIE

For the year 1971 the Registrar General has estimated the mid-year population for the Burgh to be 6288 which compares with 5516 in the 1961 census year and with 5753 estimated in 1970.

91 live births were allocated to the Burgh. There were 2 illegitimate births and 1 still birth.

31 marriages were registered.

There were 89 deaths corrected for residence. The chief causes of death were Heart Disease 41, Cancer 16 (lung cancer 4) Cerebro-vascular Disease 14. Of the 89 deaths 69 persons were over the age of 65. There was 1 infant death (under 1 year).

During the year there were 34 cases of infectious diseases notified and confirmed:- Measles 3, Viral Infectious Hepatitis 4, Acute Primary Pneumonia 5, Dysentery 11, Pulmonary Tuberculosis 1, Food-poisoning 1, Whooping Cough 9.

BURGH OF FORFAR

For the year 1971 the Registrar General has estimated the mid-year population of the Burgh to be 10651 which compares with 10252 in the 1961 census year and with 10066 estimated in 1970.

157 live births were allocated to the Burgh. There were 6 illegitimate births and 2 still births.

119 marriages were registered.

There were 162 deaths corrected for residence. The chief causes of death were Heart Disease 72, Cancer 23 (lung cancer 4), Cerebro-vascular Disease 35. Of the 162 deaths 126 persons were over the age of 65. There were 4 infant deaths (under 1 year).

There were 40 cases of infectious diseases notified and confirmed:- Dysentery 1, Erysipelas 2, Viral Infectious Hepatitis 9, Measles 3, Acute Primary Pneumonia 6, Influenzal Pneumonia 1, Scarlet Fever 15, Whooping Cough 1, Tuberculosis 2.

BURGH OF KIRRIEMUIR

For the year 1971 the Registrar General has estimated the mid-year population of the Burgh to be 4192 which compares with 3476 in the 1961 census year and 4107 estimated in 1970.

61 live births were allocated to the Burgh. There were 2 illegitimate births and 1 still birth.

43 marriages were registered.

There were 65 deaths corrected for residence. The chief causes of death were Heart Disease 24, Cancer 12 (lung cancer 2), Cerebro-vascular Disease 10. There were 2 deaths following accidents in the home. Of the 65 deaths 55 persons were over the age of 65. There was 1 infant death (under 1 year).

There was 1 case of infectious disease notified and confirmed:- Viral Infectious Hepatitis 1.

BURGH OF MONIFIETH

For the year 1971 the Registrar General has estimated the mid-year population for the Burgh to be 6300 which compares with 3488 in the 1961 census year and with 5541 estimated in 1970.

114 live births were allocated to the Burgh. There were 2 illegitimate births and no still births.

24 marriages were registered.

There were 64 deaths corrected for residence. The chief causes of death were Heart Disease 31, Cancer 8 (lung cancer 2), Cerebro-vascular Disease 8. There were 2 infant deaths (under 1 year). Of the 64 deaths 52 persons were over the age of 65.

During the year there were 32 cases of notifiable infectious diseases notified and confirmed:- Measles 7, Whooping Cough 17, Food Poisoning 1, Acute Primary Pneumonia 3, Scarlet Fever 3, Tuberculosis 1.

BURGH OF MONTROSE

For the year 1971 the Registrar General has estimated the mid-year population for the Burgh to be 10091 which compares with 10793 in the 1961 census year and 10117 estimated in 1970.

136 live births were allocated to the Burgh. There were 11 illegitimate births and 1 still birth.

115 marriages were registered.

There were 166 deaths corrected for residence. The chief causes of death were Heart Disease 75, Cancer 38 (lung cancer 8), Cerebro-vascular Disease 21. There were 2 deaths following accidents in the home. There were 6 infant deaths (under 1 year). Of the 166 deaths 124 persons were over the age of 65.

During the year there were 22 cases of notifiable infectious diseases notified and confirmed:- Measles 17, Erysipelas 1, Viral Infectious Hepatitis 1, Whooping Cough 2, Tuberculosis 1.

SCHOOL MEDICAL SERVICE

Report for the Year Ending 31st July, 1971.

GENERAL STATISTICS

The population of the area of the Education Authority including the Large Burgh of Arbroath (21,700) at 31st December, 1970 was 94,400.

NUMBER OF SCHOOLS

(a) Primary (Including Primary Department of Secondary Schools)	...	80	
(b) Secondary — Junior	...	4	
(c) Senior	...	6	
(d) Special Schools (Junior Occupation Centres)	...	2	
(e) Special Classes in Ordinary Schools	...	7	
(f) Classes for Retarded Pupils in Ordinary Schools	...	3	
Number of Children on Registers	...	15,992	
Number of Children in Average Attendance	...	15,087	94.3%

A. ORGANISATION AND ADMINISTRATION

There has been no change in the organisation and administration of the service since it was last detailed.

All Schools in the County were visited for routine Medical Inspection of Children in certain age-groups as required by the Scottish Home and Health Department.

This session the children given Systematic Medical Inspection were:

- (a) Entrants - i.e. all children starting school (at the age of five approximately)
- (b) School Leavers - i.e. all children born during the year 1957, (approximately 13 years old at the time of inspection.)

In addition to these examinations, children who had previously missed examination with their age-groups, because of absence or because of moving from another area, were also given a full medical inspection.

Children of all ages who had been found at a previous examination to be suffering from defects were examined in respect of those defects. The vision and hearing of all children born in 1963 and 1961 were tested.

Special visits were paid to schools for assessment examination of defective children who might require special education etc. Children on whose behalf requests for transport to school were made by their parents or guardians to the Director of Education were also seen. Examination of children for other specific purposes was undertaken, e.g. because of prolonged or frequent absence from school without apparent reason. A number of children were seen at special visits at the request of head teachers. In most of these cases a visit or visits to the homes were necessary and many of the preliminary examinations were done in the pupils' homes.

COLOUR BLINDNESS

All thirteen year old children were, as in previous years, tested for colour blindness using Ishihara Plates. The Headmasters were notified of children who were colour blind, and the condition was explained to the colour blind pupil, including an explanation that he would not be accepted in certain occupations.

ENTRANTS' VISION TESTING

This continues to be done as detailed in previous reports. The importance of this test is to detect visual defects at an early age, as certain defects are not amenable to treatment later, and also because defective vision may be a handicap to scholastic progress.

The number of parents attending the medical examination continues to increase especially those of children in the entrant age group. In many cases, this contact with parent is invaluable and often serves as a continuous link with the pre-school child welfare clinic service supplied locally. Good liaison with teachers continues in all schools resulting in close co-operation between teaching and medical staff.

B.C.G. VACCINATION

In November and December, 1970, B.C.G. vaccination against tuberculosis was offered to all children born in 1957. As B.C.G. vaccination is a Local Health Authority function the B.C.G. vaccination of Arbroath Burgh Children is undertaken by the Arbroath Medical Officer of Health. In all, 758 children were skin-tested, and 734 gave a negative reaction, of whom 703 were given B.C.G. vaccination. X-ray examinations of the chest were arranged for children who showed a positive reaction. Details of the Vaccination Scheme are included in the Annual Report of the Medical Officer of Health for the year 1970.

IMMUNISATION

This is also a function of the County Council as Local Health Authority, but use is made of the School Medical Service to offer immunisation against both poliomyelitis and diphtheria/tetanus through the schools. Details of these immunisations are given in the Annual Report of the Medical Officer of Health.

In August 1970, children in primary I and II of the schools of Montrose Burgh were offered measles vaccination. After receiving parental consent, the vaccine was administered to those children who had not yet been vaccinated or who had not yet had the disease.

A programme of vaccination against Rubella (German Measles) was arranged for girls born in the years 1957, 1958 and 1959 and vaccine administered to those whose parents gave consent. One girl, born 1958, was found later to have been four months pregnant at the time of vaccination against Rubella.

In order that children leaving school might have better protection against tetanus and poliomyelitis those boys and girls born in 1956 were offered and, those whose parents accepted, given booster immunisation against both these diseases.

B. SANITARY CONDITIONS AND BUILDINGS

When each school was visited for the Annual Systematic Medical Inspection of the pupils, the buildings were seen and any major defects discussed with the Head Teacher.

C. MINOR AILMENTS CLINICS

Clinics were held by the Medical Staff weekly in the Burghs of Forfar, Arbroath, Montrose and Brechin. The Medical Officers saw children at the request of their parents or teachers, as well as a number of children who had been found at School Medical Inspection to require further investigation or surveillance. The majority of the children were accompanied by the parents. Treatment in some cases was given for Minor Ailments, especially those of a contagious nature. These Clinics were also used for the medical assessment of pre-school children who might require special education.

TREATMENT OF MINOR AILMENTS, ETC.

The following table gives details of the cases attending the clinics held by School Medical Officers in Arbroath, Forfar, Brechin and Montrose and of those treated by the nursing staff in the rural area.

	BURGH		RURAL	
	No. of Cases	No. of Treatments	No. of Cases	No. of Treatments
Special Cases, Minor Ailments etc.	110	194	97	247
Skin Conditions				
Ringworm of Scalp	-	-	-	-
Ringworm of Face	-	-	5	13
Ringworm of Body	-	-	3	9
Scabies	25	14	14	35
Impetigo	8	-	9	17
Others	58	7	15	40
	201	215	143	361

D. NURSERY SCHOOLS

There are no Nursery Schools in the County. Private play-groups are the responsibility of the Social Work Department.

E. PERSONAL HYGIENE

School nurses and Health Visitors continue to visit schools monthly regarding cleanliness of school children. Where necessary home visits are carried out on children found to be verminous. Special visitations are also paid in connection with certain contagious diseases. See table overleaf.

F. HEALTH EDUCATION

In June, two of the Departmental Medical Officers and the Deputy Nursing Superintendent carried through a programme of health education in senior schools, showing films, lecturing and answering questions (verbal and written). The subjects included personal hygiene and the dangers of smoking. The Departmental Officers in their lectures stressed the dangers to health inherent in indulging in smoking. The subject personal hygiene, was dealt with by the Depute Nursing Superintendent.

During the session, the Medical Officers and Health Visitors took every opportunity of furthering the Health Education of children of all ages.

G. RESEARCH

No research programmes were carried out this year.

H. SPECIALIST SERVICE

Specialist Clinics were held in the Burghs of Forfar, Arbroath, Montrose and Brechin for Ophthalmic, Orthopaedic and Mental conditions. The Specialists at these clinics were provided by the Eastern Regional Hospital Board and the clinics were organised by the County Council's Medical Staff. Defects of the ear, nose and throat were referred

to the Specialists at the Out Patients' Departments at Forfar, Arbroath and Montrose Infirmarys and Stracathro Hospital. Children with eye defects living near Dundee were referred to the School Eye Clinics held at Dundee Eye Institution for Angus children, and those living near Dundee with ear, nose and throat defects were seen at Dundee Royal Infirmary. Children throughout the County were also referred to the Child Psychiatrist, Dundee Royal Infirmary, when necessary.

Children who were found to be deaf or were suspected of being deaf were referred to the Speech and Hearing Assessment Clinic at Dundee Royal Infirmary.

DETAILS OF CLINICS

EYE CLINIC

These were held as follows:-

Arbroath	- Public Health Clinic, 7 Hill Street	Two or three times a week as required, either at 9.30 a.m. or in the afternoon.
Brechin	- Damacre School Clinic	Thursday at 9.30 a.m. as required
Dundee	- Dundee Eye Institution	One or two clinics a month as required, on Thursday at 9.30 a.m.
Forfar	- Ravenswood Clinic	Once or twice a week as required either at 9.30 a.m. or 1.45 p.m.
Montrose	- Esk House Clinic	Two or three times a month as required, either at 9.30 a.m. or 1.45 p.m.

As mentioned earlier in this report these clinics are staffed by the Eye Specialists provided by the Eastern Regional Hospital Board.

The following table gives details of children referred during the year.

No. of appointments made	...	...	...	...	...	2,942
No. of absentees	...	...	...	...	...	570
No. of examination carried out	...	...	...	...	...	2,372
No. of children called to clinics	...	...	...	...	...	1,479
No. of absentees	...	...	...	...	...	182
No. of children in attendance at Clinics	...	...	...	...	...	1,315
No. of children referred from these Clinics for hospital and other treatment	...	...	...	...	...	33
No. of children for operation	...	...	...	...	...	9

The number of absentees included those children whose parents elected to take them to their family doctors to arrange privately. Children who did not attend because of illness or other unavoidable circumstances were given a further appointment.

EAR, NOSE AND THROAT CLINICS

Cases were referred to the Ear, Nose and Throat Consultants at Forfar, Dundee, Montrose and Arbroath Infirmarys and at Stracathro Hospital. The Cases were called in by appointment.

Number of children whose parents were notified of child's defect of the Ear, Nose and Throat	...	...	...	...	38
Number referred to Consultants	...	...	...	...	33
Number given treatment at Hospital	...	...	...	...	32

When the parents were notified of the child's defect they were asked to consult their family doctor. They then accepted the School Medical Service's offer of a hospital appointment or had other arrangements made by their family doctor.

SPEECH AND HEARING ASSESSMENT CLINIC

This Clinic is held by an Ear, Nose and Throat Specialist at Dundee Royal Infirmary for children in the Region. Children are referred for the assessment of their hearing and for treatment of any disability found. Whether the child can be educated at an ordinary school or at a School for the Deaf (usually Dundee School for the Deaf) is considered by the Specialist and discussed with a panel, which includes one of the doctors from the School Medical Service and the Educational Psychologist. The advice of other Specialists is obtained when required. Old cases are also periodically reviewed in the same way.

Four new cases were seen during the school year.

ORTHOPAEDIC CLINICS

These Specialist Clinics were held at the Clinic, 7 Hill Street, Arbroath and Ravenswood, Forfar. All cases were seen by appointment. The Arbroath Clinics were held on one day a week on the first, third and fourth weeks of each month at 9.30 a.m. The Forfar Clinics were held at the same time on the second and fifth (when five a month) Tuesday of each month. Children residing in the Montrose and Brechin areas were called to the local Infirmary. Those living in the Dundee area were seen at Kemback Street Clinic. Those living near the Perthshire boundary were seen at Clinics in Coupar Angus or Blairgowrie, by the arrangement with the Perth Hospital Group.

In addition to the Specialist Clinics, physiotherapy treatment sessions were held weekly in Arbroath Clinic on Tuesday afternoons and all day on Friday and in Forfar on Wednesdays.

	Arbroath/ Forfar	Dundee	Perth Hospitals	Brechin & Montrose	Total
Cases seen by Consultant	467/284	13	11	34/36	845
Cases recommended for Physiotherapy	110/ 61	2	-	6	179
Cases recommended for Hospital Treatment	11/ 8	5	1	15	40
Cases admitted to hospital	10/ -	-	-	-	10

MENTAL DEFICIENCY

Clinics for mental defectives were held at one of the following Clinics as required:-

Arbroath	-	7 Hill Street
Brechin	-	Damacre Clinic
Carnoustie	-	126 High Street
Forfar	-	Ravenswood Clinic
Monifieth	-	Seaview Clinic
Montrose	-	Esk House.

During the year 17 children of school age were examined at these Clinics by a Specialist in Mental Deficiency from Strathmartine Hospital.

EDUCATIONAL PSYCHOLOGIST

During the session 9 new cases were referred by the School Medical Service. One other case was referred to a Child Psychiatrist.

SPEECH THERAPIST

During the session 28 new cases were referred by the School Medical Service. As the County had no Speech Therapist during the session the children's names were put on the waiting list. The total number of children found at School Medical Inspection to require Speech Therapy, including these new cases, was 98.

REFERRAL TO GENERAL PRACTITIONERS

During the session 18 children were referred by the School Medical Service to their family doctors for treatment.

SYSTEM AND EXTENT OF DENTAL INSPECTION AND TREATMENT

The Chief Dental Officer, Mr. D.N. Anderson, reports on the Dental Service as follows:-

SESSION 1970 - 71

I herewith submit the Report of the Dental Department for 1970-71.

During the past year in addition to the four full-time Dental Officers working in the Department, two part-time Dental Officers were employed, as it had not been possible to fill the two vacant appointments. The two part-time Dental Officers were only able to be employed for the equivalent of a fifth of a Dental Officer's normal working year.

As it was not possible, because of the shortage of Dental Officers, to inspect and offer treatment to all children at Primary and Secondary Schools, priority was given to the pupils of rural and burgh primary schools. The equivalent of two secondary school pupils were inspected and offered treatment, the remainder were inspected near the end of the school year and where necessary their parents were advised to arrange for their dental treatment elsewhere.

Dental Health Education was carried out by the Dental Officers during their visits to schools for routine dental inspections and at the distribution of Dental Health Packs to all first year new entrants. Dental Health Posters and Wall Charts for use in classrooms, obtained from Scottish Health Education Unit were issued at school where required.

The upgrading of Burgh Dental Clinics continued and dental equipment was purchased for use in the Carnoustie Schools M.I. Rooms.

In addition to the treatment of school children, maternity and child welfare patients, treatment was given to pupils attending Senior Occupation Centres.

The statistics of treatment are appended and after deducting the number of secondary school pupils inspected but not offered treatment, 11971 pupils were inspected, 7774 had defects and 3177 were treated by the School Dental Officers.

(Signed) D. N. ANDERSON,
Chief Dental Officer.

DENTAL STATISTICS 1970 - 71

	Number of Schools	Number Inspected and Treated.
Primary (including Primary Department of Secondary Schools)	79	79
Secondary – Junior	4	3½
Senior	6	2

SYSTEMATIC INSPECTION AND TREATMENT

(1) Number of children and ages inspected by Dental Officers

Age	Systematic Inspection	Emergency	Total
Pre-School	23	36	59
5	1466	22	1488
6	1438	21	1459
7	1459	19	1478
8	1428	23	1451
9	1480	31	1511
10	1339	23	1362
11	1328	17	1345
12	1048	16	1064
13	1130	10	1140
14	1137	18	1155
15	813	10	823
16	383	3	386
17	183	1	184
	14632	214	14846

(2) Number of Children found to require Treatment	...	7774
Emergency	...	214
(3) Number of Children actually treated	...	3177
Emergency	...	214
(4) Number of attendances for treatment	...	10334
Emergency	...	214
(5) Number of Fillings in Permanent Teeth	...	8871
Number of Fillings in Temporary Teeth	...	1140
(6) Number of Permanent Extractions	...	528
Number of Temporary Extractions	...	1749
(7) Number of cases of General Anaesthetic	...	6
(8) Number of other operations in Permanent Teeth	...	1545
Number of other operations in Temporary Teeth	...	602

(9) Number of Dentures supplied	...	...	Part	17
	...	...	Full	3
Number of Dentures repaired	...	...	...	4
Number of Crowns fitted	...	...	...	3
Number of Inlays inserted	...	...	...	9
(10) Ante and Post Natal Cases —				
Number of Cases treated	...	...	...	5
Number of Dentures supplied	...	...	...	0
Number of Filling in Permanent Teeth	...	...	...	10
Number of Extractions of Permanent Teeth	...	...	...	2
Number of Other Operations in Permanent Teeth	...	...	...	3
Number of Sessions	...	...	...	2
(11) Pre-School Cases —				
Number of Cases Treated	...	...	...	59
Number of Filling in Temporary Teeth	...	...	...	48
Number of Extractions of Temporary Teeth	...	...	...	54
Number of Other Operations in Temporary Teeth	...	...	...	10
Number of Cases of General Anaesthetic	...	...	...	4
Number of Sessions	...	...	...	12
(12) Orthodontic Treatment —				
Cases treated by School Dental Officers —				
(1) Number of cases continuing from previous year	...	...	...	130
(2) Number of New Cases	...	...	...	88
(3) Number of Cases completed	...	...	...	62
(4) Number of Cases discontinued	...	...	...	27
(5) Number of Cases continuing at end of year	...	...	...	129
(6) Number of Attendances for treatment	...	...	...	1213
(7) Number of Attendances to see Orthodontic Consultant	...	...	...	120
Details of Treatment —				
(1) Number of Appliances inserted	...	...	...	100
repaired	...	...	...	10
(2) Number of Extractions for Orthodontic purposes				
(a) Permanent	...	...	...	194
(b) Temporary Teeth	...	...	...	128
(3) Number of X-rays for Orthodontic Purposes	...	...	...	363
(13) Senior Occupation Centres —				
Number of Patients treated	...	...	...	6
Number of Fillings in Permanent Teeth	...	...	...	3
Number of Extractions of Permanent Teeth	...	...	...	5
Number of Other Operations in Permanent Teeth	...	...	...	4
Number of Full Dentures supplied	...	...	...	1
Number of Part Dentures supplied	...	...	...	2
(14) Sessions —				
Number of half-days devoted to Inspection	...	...	...	166½
Number of half-days devoted to Treatment	...	...	...	1614
Number of half-days lost due to illness	...	...	...	33
Number of half-days devoted to Orthodontics	...	...	...	103½
Number of half-days devoted to Administration etc.	...	...	...	39½
Number of half-days devoted to Dental Health Education	...	...	...	23½
Number of half-days devoted to Maternity and Child Welfare	...	...	...	14

WORK DONE BY NURSING STAFF IN SCHOOL MEDICAL SERVICE

	No. of Children seen	No. of visits to schools	Unsatisfactory cleanliness Bad Clothing & Footwear	Vermin Body Head	Nits	Plantar Warts	Ringworm	Scabies
Burgh Schools	39,416	681	46	- 34	171	267	2	65
Rural Schools	14,711	436	52	- 19	54	34	5	15
	54,127	1,117	98	- 53	225	301	7	80

NUMBER OF NOTICES SENT TO PARENTS

	Vermin Body	Head	Nits	Unsatisfactory cleanliness Bad clothing & Footwear	Scabies	Home visits
Burgh Schools	-	20	74	16	56	616
Rural Schools	-	9	11	3	10	239
	-	29	85	19	66	855

TABLE I

SCHOOL HEALTH SERVICE

MEDICAL EXAMINATIONS BY EACH EDUCATION AUTHORITY

YEAR 1970

Local Authority	ENTRANTS						LEAVERS					
	No. of Examinations		No. with defect		Percentage with Defects		No. of Examinations		No. with defect		Percentage with Defects	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Aberdeen Burgh	1,337	1,284	834	794	62.38	61.84	-	-	-	-	-	-
Dundee	1,502	1,527	765	715	50.93	46.82	1,363	1,293	547	607	40.13	46.95
Edinburgh	3,020	2,965	1,757	1,537	58.18	51.84	2,715	2,348	1,242	940	45.75	40.03
Glasgow	7,596	7,383	4,161	4,009	54.78	54.30	7,398	7,348	3,218	3,346	43.50	45.54
Aberdeen County	1,199	1,007	720	524	60.05	52.04	-	-	-	-	-	-
Angus	747	685	407	346	54.48	50.51	631	653	283	264	44.85	40.43
Argyll	370	351	237	178	64.05	50.71	333	350	200	176	60.06	50.29
Ayr County	3,090	2,915	1,598	1,401	51.72	48.06	2,600	2,618	1,003	1,052	38.58	40.18
Banff	350	337	242	188	69.14	55.79	375	341	171	148	45.60	43.40
Berwick	139	130	66	36	47.48	27.69	146	153	52	47	35.62	30.72
Bute	85	81	56	35	65.88	43.21	80	94	45	46	56.25	48.94
Caitness	288	281	135	100	46.88	35.59	214	191	68	80	31.78	41.88
Clackmannan	375	395	168	173	44.80	43.80	316	308	133	116	40.80	37.66
Dumfries County	701	628	488	410	69.61	65.29	661	629	421	403	63.69	64.07
Dunbarton	2,420	2,377	1,439	1,226	59.46	51.58	1,842	1,797	719	656	39.03	36.51
East Lothian	483	463	286	293	59.21	63.28	417	404	191	176	45.80	43.56
Fife	2,327	2,231	1,327	1,065	57.03	47.74	1,359	1,365	729	687	53.64	50.33
Inverness County	722	728	476	435	65.93	59.75	672	660	246	287	36.61	43.48
Kincardine	174	-	104	-	59.77	-	172	182	51	72	29.65	39.56
Kirkcudbright	313	320	187	155	59.74	48.44	162	156	46	72	28.40	46.15
Lanark	5,664	5,263	3,400	2,911	60.03	55.31	4,283	4,378	2,312	2,159	53.98	49.31
Midlothian	1,267	1,139	677	501	53.43	43.99	982	915	401	377	40.84	41.20
Moray and Nairn	566	573	240	248	42.40	43.28	447	448	177	143	39.60	31.92
Orkney	139	132	58	56	41.73	42.42	100	115	37	37	37.00	32.17
Peebles	83	80	43	31	51.81	38.75	60	87	21	23	35.00	26.44
Perth and Kinross	991	926	514	405	51.87	43.74	869	766	419	329	48.22	42.95
Renfrew	3,497	3,216	2,053	1,757	58.71	54.63	2,580	2,723	1,338	1,560	51.86	57.29
Ross and Cromarty	510	445	302	258	59.22	57.98	447	429	192	185	42.95	43.12
Roxburgh	315	318	189	160	60.00	50.31	279	284	142	142	50.90	50.00
Selkirk	150	172	68	46	45.33	26.74	158	144	52	49	32.81	34.03
Stirling County	1,770	1,714	1,038	919	58.64	53.62	997	1,188	438	461	43.93	38.80
Sutherland	105	101	71	67	67.62	66.34	84	105	41	62	48.81	59.05
West Lothian	1,056	1,003	568	479	53.79	47.76	760	879	288	401	37.89	45.62
Wigtown	225	197	139	109	61.78	55.33	177	142	91	75	51.41	52.82
Zetland	87	84	11	15	12.64	17.86	67	67	31	21	46.27	31.34
Scotland	43,663	41,151	24,824	21,582	56.85	52.07	33,756	33,560	15,345	15,199	45.46	45.29

TABLE II

YEAR 1970/71

SCHOOL HEALTH SERVICE

Rates of Defects found per 100,000 Children Examined

ANGUS

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Warts and Verruca	535	730	2,853	3,369
Athlete's Foot	-	146	-	153
Pediculosis	-	-	-	153
Scabies	134	-	475	306
Other Infections	-	146	158	153
Neoplasm (including naevus)	268	584	158	153
Diabetes	134	-	317	153
Under weight	134	292	-	-
Obesity	402	1,314	2,694	3,828
Other Endocrine, Nutritional, Metabolic Disorder	268	292	-	-
Haemophilia	-	-	158	-
Anaemia and other Blood Disorders	268	292	-	-
Speech Disorder	3,882	2,336	1,268	153
Enuresis etc.	1,473	1,168	792	306
Behaviour Disorder	-	-	475	153
Borderline Mental Retardation	268	292	1,743	613
Mild Mental Retardation	-	-	158	153
Moderate Mental Retardation	-	-	-	153
Severe Mental Retardation	-	146	475	153
Epilepsy	268	438	158	613
Other Diseases of Nervous System (including Cerebral Palsy)	134	-	317	459
Inflammatory Conditions of Eye (including Stye)	402	438	317	153
Refractive Error	6,560	6,569	12,520	17,611
Strabismus	1,606	2,774	634	306
Colour Blindness	-	-	4,596	-
Blindness of one Eye	-	-	-	153
Other Eye Conditions	-	-	158	-
Inflammatory Condition of Ear	535	292	-	-
Wax in Ear	-	146	-	-
Other Conditions affecting Ear	-	-	158	-
Deafness in Both Ears	-	146	-	-
Deafness in one Ear	134	292	-	153
Impaired Hearing one or both Ears	2,544	1,606	1,268	919
Chilblains	-	-	158	-
Organic Disease of Heart and Blood Vessels	-	-	158	153
Asthma	2,276	584	3,645	1,225
Enlarged Tonsils	16,734	19,854	5,230	4,441
Hay Fever	402	146	634	-
Other Diseases of Respiratory Systems (including common cold and bronchitis)	9,371	8,467	2,694	2,144
Dental Caries	4,284	3,212	951	459

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Other Diseases of Mouth	-	584	-	-
Disease of Digestive System	134	-	-	-
Hernia	134	146	158	-
Kidney Disease	134	146	-	459
Disease of Genital Organ	-	146	-	-
Infection of Skin (including boils)	937	146	317	-
Eczema	1,071	730	475	1,225
Acne	-	-	475	1,531
Other Diseases of Skin (including corns, urticaria)	1,606	584	1,585	1,378
Osteochondrosis	268	146	317	-
Spinal Curvature	-	292	475	613
Pes Planus	7,497	3,504	3,645	766
Hallux Valgus	134	-	-	-
Other Minor Deformities (including Knock Knee)	8,568	5,255	3,011	3,369
Other Orthopaedic Conditions (including Wryneck)	-	146	158	306
Spina Bifida	-	146	-	-
Congenital Anomalies of Eye	134	-	-	153
Congenital Anomalies of Ear, Face and Neck	134	146	-	-
Congenital Anomalies of Heart	-	292	-	153
Cleft Palate and Cleft Lip	402	146	-	-
Other Congenital Anomalies of Upper Alimentary Tract	134	-	-	-
Congenital Anomalies of Genital Organs (including Undescended Testicles)	1,205	-	158	-
Congenital Clubfoot	134	-	317	153
Other Congenital Anomalies of Limbs System	134	292	-	306
Other Congenital Anomalies of Musculo Skeletal (System) (including Funnel Chest, Pigeon Chest)	402	292	634	153
Congenital Anomalies of Skin, Hair and Nail (including Pigmented Naevus)	402	438	-	459
Ill Defined Conditions – Swollen Glands	2,142	2,044	317	153
Ill Defined Conditions (including Syncope and "Nerves")	402	-	792	153
Injuries	-	146	792	306

TABLE III

SCHOOL HEALTH SERVICE

YEAR 1970/71

Rates of Defects per 100,000 Examined by Social Class

10% SAMPLE

ANGUS

Defect	ENTRANTS						Total	Other or not Stated	LEAVERS					Total	
	SOCIAL CLASS					SOCIAL CLASS			Other or not Stated	1	2	3	4		5
	1	2	3	4	5										
Verruca	Boys	-	-	-	-	-	-	-	-	-	7,143	-	-	3,226	
	Girls	-	-	5,714	8,333	50,000	-	6,154	-	-	8,696	8,333	-	6,061	
Scabies	Boys	-	-	3,030	-	-	-	1,389	-	-	3,571	-	-	1,613	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diabetes	Boys	-	-	-	-	-	-	-	-	10,000	3,571	-	-	3,226	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Obesity	Boys	-	-	3,030	-	-	-	1,389	-	10,000	3,571	8,333	-	4,839	
	Girls	-	-	-	-	-	-	-	-	14,286	-	-	-	4,839	
Other Endocrine, Nutritional Metabolic Disorder	Boys	-	-	3,030	-	-	-	1,389	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Speech Disorder	Boys	-	-	-	6,667	-	-	1,389	-	-	-	-	-	-	
	Girls	-	-	-	16,667	-	25,000	4,615	-	-	-	-	-	-	
Enuresis etc.	Boys	-	-	3,030	6,667	-	-	2,778	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Borderline Mental Retardation	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	4,348	-	-	1,515	
Other Diseases of Nervous System	Boys	-	-	3,030	-	-	-	1,389	-	-	-	-	16,667	1,613	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE III (continued)

	ENTRANTS						LEAVERS								
	SOCIAL CLASS						Other or not Stated	Total	SOCIAL CLASS					Other or not Stated	Total
	1	2	3	4	5	1			2	3	4	5			
Refractive Error	Boys	-	-	9,091	13,333	-	-	6,944	50,000	30,000	28,571	8,333	-	-	20,968
	Girls	-	18,182	2,857	-	-	-	4,615	50,000	14,286	30,435	20,833	20,000	40,000	25,758
Strabismus	Boys	-	7,143	3,030	-	-	-	2,778	-	-	-	-	-	-	-
	Girls	-	-	2,857	-	-	-	1,538	-	-	-	-	-	-	-
Colour Blindness	Boys	-	-	-	-	-	-	-	-	-	3,571	8,333	-	-	3,226
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Conditions affecting Ear	Boys	-	-	-	-	-	-	-	-	-	3,571	-	-	-	1,613
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Impairment of Hearing one or both Ears	Boys	-	-	-	-	-	-	-	-	-	3,571	-	-	-	1,613
	Girls	-	9,091	-	-	-	-	1,538	-	-	-	-	-	-	-
Asthma	Boys	-	7,143	-	-	-	-	1,389	-	-	-	-	-	-	-
	Girls	-	-	-	-	-	-	-	-	-	4,348	-	-	-	1,515
Disease of Tonsils	Boys	50,000	21,429	24,242	26,667	25,000	-	23,611	-	-	7,143	-	-	-	3,226
	Girls	-	18,182	17,143	25,000	-	25,000	18,462	-	-	13,043	-	-	-	4,545
Other Diseases of Respiratory System	Boys	-	-	9,091	6,667	-	-	5,556	-	-	7,143	-	-	16,667	4,839
	Girls	-	18,182	5,714	8,333	-	-	7,692	50,000	-	-	-	-	20,000	3,030
Dental Causes	Boys	-	-	6,061	13,333	-	-	5,556	-	-	7,143	8,333	-	-	4,839
	Girls	-	18,182	2,857	-	-	-	4,615	-	-	-	-	-	-	-
Other Diseases of Mouth	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Girls	-	-	-	8,333	-	-	1,538	-	-	-	-	-	-	-
Infection of Skin	Boys	-	-	-	-	-	-	-	-	-	-	-	-	16,667	1,613
	Girls	-	-	-	-	-	-	1,538	-	-	-	-	-	-	-
Eczema	Boys	-	7,143	-	-	-	-	1,389	-	-	-	-	-	-	-
	Girls	-	-	-	-	-	-	-	-	14,286	-	-	-	-	1,515

TABLE III (continued)

ENTRANTS												LEAVERS				
	SOCIAL CLASS					Other or not Stated	Total	SOCIAL CLASS					Other or not Stated	Total		
	1	2	3	4	5			1	2	3	4	5				
Acne— Boys Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other Diseases of Skin	-	-	-	-	-	-	-	-	-	4,348	-	-	-	1,515		
	-	-	-	-	-	-	-	-	-	3,571	-	-	-	1,613		
Spinal Curvature	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	8,333	-	-	1,613		
Pes Planus	50,000	-	6,061	-	-	25,000	5,556	-	10,000	7,143	-	-	16,667	6,452		
	-	18,182	5,714	8,333	-	-	7,692	-	-	-	-	-	-	-		
Other Minor Deformities	-	14,286	6,061	6,667	-	-	6,944	50,000	-	7,143	-	-	-	4,839		
	-	-	5,714	8,333	-	-	4,615	-	-	4,348	4,617	-	20,000	4,545		
Congenital Anomalies of Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	4,617	-	-	1,515		
Cleft Palate and Cleft Lip	50,000	-	-	-	-	-	1,389	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Congenital Anomalies of Urinary System	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	4,348	-	-	-	1,515		
Other Congenital Anomalies of Musculo Skeletal System	-	-	-	-	-	-	-	-	-	3,571	-	-	-	1,613		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Congenital Anomalies of Skin, Hair & Nails	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	4,348	-	-	-	1,515		
Ill Defined Conditions — Swollen Glands	-	14,286	3,030	-	-	-	4,167	-	-	-	-	-	-	-		
	-	-	5,714	-	-	-	3,077	-	-	-	-	-	-	-		

TABLE IV

SCHOOL HEALTH SERVICE

YEAR 1970

NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY E.A. AREA AND SCOTLAND

Local Authority	ENTRANTS						LEAVERS					
	BOYS			GIRLS			BOYS			GIRLS		
	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)
Aberdeen Burgh	1,337	43.34	43.77	1,284	43.02	42.68	-	-	-	-	-	-
Dundee	1,502	42.65	41.79	1,527	42.50	40.98	1,363	60.68	96.43	1,293	60.84	104.00
Edinburgh	3,020	43.00	42.80	2,965	42.87	42.17	7,715	60.58	96.89	2,348	61.24	105.14
Glasgow	7,596	42.51	42.36	7,383	42.36	41.58	7,398	62.52	94.37	7,348	62.60	99.60
Aberdeen County	1,199	43.81	44.70	1,007	43.50	43.44	-	-	-	-	-	-
Angus	747	43.69	44.12	685	43.40	42.92	631	60.55	98.62	653	61.03	105.76
Argyll	370	44.47	45.24	351	44.44	44.86	333	61.02	98.74	350	61.31	106.09
Ayr County	3,090	43.37	43.36	2,915	43.10	42.40	2,600	60.65	99.06	2,618	60.83	105.02
Banff	350	43.25	43.29	337	43.04	42.40	375	60.47	99.27	341	60.60	105.59
Berwick	139	42.87	42.46	130	43.29	41.62	146	60.59	100.25	153	61.54	106.47
Bute	85	42.66	42.25	81	42.44	41.16	80	60.15	97.53	94	61.07	104.88
Caithness	288	43.81	44.47	281	43.28	43.07	214	62.58	106.64	191	61.41	107.96
Clackmannan	375	42.94	42.32	395	42.88	41.82	326	60.06	96.18	308	59.79	100.40
Dumfries County	701	43.75	43.09	628	43.44	42.04	661	60.64	97.77	629	61.07	100.31
Dumbarton	2,420	43.29	42.83	2,377	43.04	41.84	1,842	60.81	98.39	1,797	60.74	103.49
East Lothian	483	43.30	43.38	463	43.00	42.46	417	60.69	99.12	404	61.03	103.63
Fife	2,327	42.95	42.43	2,231	42.51	40.98	1,359	60.63	96.04	1,365	60.72	103.08
Inverness County	722	43.02	43.09	728	42.93	42.44	672	61.42	102.52	660	61.11	105.28
Kincardine	174	43.93	44.13	-	-	-	172	60.84	99.47	182	61.27	105.53
Kirkcubright	313	43.94	44.26	320	43.28	42.36	162	61.85	103.90	156	61.79	108.47
Lanark	5,664	43.69	43.58	5,263	43.31	42.49	4,283	60.71	96.38	4,378	60.95	102.70
Midlothian	1,267	44.05	44.10	1,139	43.74	42.86	982	60.88	99.45	915	60.83	105.12
Moray and Nairn	566	43.39	43.30	573	42.81	42.00	447	61.22	100.61	448	61.15	104.18
Orkney	139	44.18	44.88	132	43.35	43.07	100	61.46	107.50	115	61.42	113.74
Peebles	83	43.98	44.82	80	43.80	42.96	60	61.55	102.37	87	61.44	107.31
Perth and Kinross	991	43.29	43.24	926	43.10	42.61	869	60.40	97.51	766	61.09	106.14
Renfrew	3,497	42.92	42.54	3,216	42.61	41.56	2,589	60.09	96.82	2,723	60.38	102.20
Ross and Cromarty	510	43.59	44.88	445	42.84	42.72	447	61.01	102.67	429	60.93	107.27
Roxburgh	315	43.14	43.11	318	42.40	41.30	279	60.52	95.07	284	61.15	103.27
Selkirk	150	42.71	40.87	172	42.54	39.83	158	60.41	95.66	144	61.11	102.06
Stirling County	1,770	43.84	44.69	1,714	43.50	43.37	997	60.90	100.16	1,188	61.03	107.07
Sutherland	105	44.40	47.12	101	43.66	44.10	84	60.95	99.62	105	61.54	107.20
West Lothian	1,056	43.13	42.40	1,003	42.93	41.61	760	60.68	97.57	879	60.30	101.10
Wigtown	225	44.07	43.75	197	43.68	42.95	177	61.40	96.37	142	61.63	105.40
Zetland	87	46.22	47.11	84	45.61	46.05	67	61.90	107.24	67	62.31	116.76
Scotland	43,663	43.22	43.13	41,451	42.93	42.11	33,756	61.08	97.19	33,560	61.26	103.10

TABLE V

YEAR 1970

SCHOOL HEALTH SERVICE
AVERAGE HEIGHT AND WEIGHTS BY SOCIAL CLASS
ANGUS

SOCIAL CLASS	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)
1	43.00	44.00	40.00	34.00	61.50	90.00	60.00	94.00
2	43.93	43.93	43.18	41.91	62.40	114.90	60.14	103.43
3	43.24	43.03	43.54	42.46	59.54	91.11	60.78	99.78
4	43.27	42.00	42.67	41.92	58.58	94.08	61.42	106.33
5	43.75	44.50	44.50	43.50	59.75	94.25	61.00	113.80
OTHER OR NOT STATED	44.00	45.50	45.00	43.25	60.67	98.83	60.40	92.40
TOTAL	43.44	43.24	43.38	42.22	60.00	96.44	60.91	102.88

TABLE VI

YEAR 1970

SCHOOL HEALTH SERVICE
AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY
ANGUS

No. in Family	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	(Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)
1	44.17	45.45	43.17	42.77	61.13	103.28	61.59	110.41
2	43.76	43.83	43.66	43.40	61.02	100.85	61.21	106.67
3	43.69	44.19	43.67	43.30	59.93	95.52	61.11	105.84
4	43.66	44.22	42.70	41.43	60.73	99.60	60.76	103.26
5	42.90	43.25	42.95	42.22	60.24	93.89	60.89	104.95
6	44.43	47.71	42.93	42.00	60.38	99.58	60.10	104.26
7	43.78	45.33	41.67	39.67	59.93	96.87	60.22	105.11
8	42.00	37.00	43.67	49.67	60.33	109.44	60.00	89.00
9	42.50	40.00	-	-	59.00	95.00	62.25	97.25
10	38.00	35.00	38.50	37.00	64.00	126.00	59.50	130.00
11	-	-	-	-	61.50	94.00	62.00	97.00

TABLE VII

HANDICAPPED CHILDREN

The details of these children are included in the Annual Report of the Medical Officer of Health.

TABLE VIII

SCHOOL HEALTH SERVICE
 YEAR 1970/71
 AREA ANGUS

TESTS OF VISUAL ACUITY

Year of Birth	Number Examined		Normal *		Vision 6/9 6/12 in Better Eye		Vision 6/18 or less in Better Eye	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
A. ENTRANTS i.e. year of birth 1965	766	695	736(33)	657(26)	28	33	2	5
B. 7 to 8 year olds i.e. year of birth 1963	755	645	705(30)	614(25)	45	30	5	1
C. 9 to 10 year olds i.e. year of birth 1961	699	645	671(34)	621(45)	22	19	6	5
D. LEAVERS i.e. year of birth 1957	635	649	620(29)	624(40)	12	20	3	5
TOTALS	2,855	2,634	2,732(126)	2,516(136)	107	102	16	16

*These figures include these children with 6/6 vision one eye and 6/12 or worse other eye.
 These have been totalled separately and are shown as figure in brackets ().

TABLE IX

SCHOOL HEALTH SERVICE
 YEAR 1970/71
 AREA ANGUS

AUDIOMETRY SWEEP TESTS

No Audiometry tests were carried out this year.

TABLE X

**SCHOOL HEALTH SERVICE
SPECIAL EXAMINATIONS**

YEAR 1970-71
AREA ANGUS

	Number Examined		Number with Defects	
	Boys	Girls	Boys	Girls
SELECTED BY MEDICAL OFFICER	-	-	-	-
referred by :-				
TEACHER	14	14	9	11
EDUCATIONAL PSYCHOLOGIST	1	-	-	-
SCHOOL NURSE	3	-	1	-
SOCIAL WORK AGENCIES	-	-	-	-
PARENT	2	2	1	-
FAMILY DOCTOR	-	-	-	-
OTHER SOURCES	-	3	-	1
RE-EXAMINATIONS	2541	2429	1459	1325
TOTALS	2561	2448	1470	1338

TABLE XI

SCHOOL HEALTH SERVICE

YEAR 1970/71
AREA ANGUS

STAFF STATISTICS

CATEGORY OF STAFF	Establishment agreed by Council	Number in Post at End of School Year				Number of Vacancies at End of School Year
		Whole-time	Part-Time	Whole-time Equivalent of Part-Time	Total Whole - Time Equivalent	
MEDICAL OFFICERS	6	-	6	1 at 25% 1 at 40% 2 at 60% each 2 at 30% each	2.45	Nil
HEALTH VISITORS	15(4)*	-	15	6 at 10% each 4(4)* at 7% each 5 at 3.5% each	1.065	Nil
NURSES (R.G.N.'S, S.R.N.'S, etc.)	16(1)*	-	16	1 at 75% 1(1)* at 72% 14 at 3.5% each	1.96	Nil
NURSES (S.E.N.'s)	-	-	-	-	-	Nil
PHYSIOTHERAPISTS	1 supplied by Hospital Board	-	1	1 at 30%	.33	Nil
ORTHOPTISTS	-	-	-	-	-	Nil
AUDIOMETRICIANS	-	-	-	-	-	Nil
OTHERS	-	-	-	-	-	Nil

*The brackets numbers refer to Staff working in Schools in the Burgh of Arbroath.

PUBLIC HEALTH DEPARTMENT,
RAVENSWOOD,
FORFAR, DECEMBER, 1972

To —

To County Council of Angus
The Scottish Home and Health Department.

Ladies and Gentlemen,

As requested by the Scottish Home and Health Department in Circular No. 3/72, I herewith submit Report for the year 1971.

This report deals briefly with most of the functions carried out by the Sanitary Department and includes a section on River Pollution Prevention.

I am,
Your obedient Servant,

ROBERT A. TAYLOR,
County Sanitary Inspector.

MILK (SPECIAL DESIGNATIONS)(SCOTLAND) ORDER, 1965

The following table shows the number of licences in each category.

	Licences held on 31.12.70	New Licences granted	Licences suspended	Licences revoked	Licences discontinued for other reasons	Licences held on 31.12.71
Premium	18	1	-	-	4	15
Standard	80	3	-	-	8	75
Pasteurised	1	-	-	-	-	1
Sterilised	-	-	-	-	-	-

ABSTRACT OF BACTERIOLOGICAL SAMPLES FOR YEAR

No. of Bacteria per ml.			Premium	Standard
Between	0 -	2,000	63	75
	2,000 -	10,000	98	293
	10,000 -	15,000	31	190
	15,000 -	50,000	8	151
over	50,000		3	51

	Premium	Standard
No. of samples taken	203	760
No. of samples which passed count test	92	709
B. Coli present in 1/100th	32	-
B. Coli present in 1/1000th	-	61

Of the 963 samples taken 852 or 88.48% complies with the bacteriological requirements of the Milk (Special Designations)(Scotland) Order. 111 or 11.52% did not comply in the following respects:-

- 44 exceeded the bacterial count and coliform bacilli were also present.
- 49 showed the presence of coliform bacilli and had low counts.
- 18 exceeded the bacterial count with no coliform present.

No. of dairymen who complied in every case	47
No. of dairymen who failed once	27
No. of dairymen who failed twice	15
No. of dairymen who failed three or more times	18

SCHOOL MILK

16 samples of school milk were taken. 2 of these samples failed the statutory tests. Follow-up samples were taken on both occasions and these were satisfactory.

PASTEURISING PLANT

16 samples of milk were taken from the Pasteurising Plant at Brechin. Only one of these samples failed to comply with the statutory tests.

BULK MILK TANKS

Only 5 producers have not yet installed bulk milk tanks. These are small producers and it is possible that the cost of transporting milk in 10 gallon milk cans will either compel them to install bulk milk tanks or else go out of milk production.

FARM IMPROVEMENTS

Milking parlours are still gaining popularity with producers and 7 farmers intend converting their present byres to the parlour system provided they qualify for a grant under the Farm Capital Grant (Scotland) Scheme. 16 farmers still use the bucket type of milk machine but these are mostly small producers.

BRUCELLOSIS

Every sample of milk taken by this Department and submitted for bacteriological examination at Stracathro Hospital was also subjected to the Brucellosis Ring Test. 14 producers showed continuous positive results. This is a decrease of 6 since last year. Of these 6 farmers — 3 took immediate steps to eradicate the disease and 3 went out of milk production.

In May of this year, the Bacteriological Department of Dundee University agreed to carry out the Brucellosis Culture Tests on milk. As a result, samples of every producer's milk was submitted for examination between 5th May, 1971 and 26th July, 1971. 18 producers had culture positive results. 2 of these producers were retailing milk and the Medical Officer of Health persuaded them to stop retailing such milk.

Farmers have become aware of the seriousness of this disease and in the majority of cases, are trying to eradicate it. At least 46 farms have become accredited under the Brucellosis (Accredited Herds) Scheme. This is 24 more than last year.

HOUSING (SCOTLAND) ACTS, 1966-69

During the course of the year a total number of twenty-nine houses were dealt with under the Housing (Scotland) Acts, 1966-69. Fifteen by Closing Order and fourteen by Demolition Order.

The Housing (Scotland) Act, 1969 placed an obligation on Local Authorities to survey their district from time to time to ascertain the number of houses which failed to meet the "Tolerable Standard" defined in the Act. A survey of this type was completed towards the end of the year when it was found that 1,109 houses fell below the required standard. This figure represented 10.2% of the total number of houses in the landward area of the County and, although this may appear to be a large percentage of sub-standard houses, 226 of these were unoccupied, 140 were classed as "holiday houses" and several required only a supply of hot water to the sink. It is hoped to deal with the unoccupied houses early in the coming year.

During the survey each occupier of sub-standard property was asked if they would be interested in obtaining the tenancy of a County Council house, and it is interesting to note that only 20.2% replied that they definitely would be. This low figure is probably due to the fact that a great number of these occupiers were elderly persons who had lived in their houses for many years and did not wish to be moved from their existing accommodation under any circumstances.

FOOD HYGIENE

Routine visits of inspection continue to be made to all types of food premises. Particular attention is given to restaurants, hotel kitchens, bakehouses, butcher shops and other premises where food is considered to be at "high risk".

Routine inspection allows the inspector to speak directly to the person most involved in clean and safe food production, the "Food Handler".

No court cases were taken during the year.

ICE CREAM

Four premises were registered for the first time and two vehicles under the one ownership.

The number of registrations in force at the end of the year were as follows:-

Premises for Manufacture, Storage and Sale	18
Premises for Storage and Sale	24
Vehicles	10

Twenty two samples of ice cream were taken for both chemical analysis and bacteriological examination. Five samples were unsatisfactory for bacteriological reasons as a result of which the people involved were encouraged to pay particular attention to hygiene methods of preparation. The samples were found to be unsatisfactory when subjected to chemical analysis. In each case this was because the vendors did not comply with the provisions of the Ice Cream (Scotland) Regulations, 1970 which require that notice be given to the purchaser (in the form of a notice displayed in the shop or on a container or wrapping for the ice cream) that the ice cream contains vegetable or alternatively non-milk fat. The offenders in each case were advised in writing of this provision of the Regulations.

FOOD SAMPLING

A total of two hundred and nine samples of foodstuffs were taken for analyses. Forty were taken formally.

Article	Formal Samples		Informal Samples		Remarks
	Exam-ined	Adulter-ated	Exam-ined	Adulter-ated	
Butter	-	-	2	-	See Note (a)
Cheese (including spreads and processed cheese)	-	-	10	1	
Coffee (including essences and mixtures)	-	-	2	-	
Cream	-	-	3	-	
Dried and preserved fruit	-	-	2	-	
Fish Cakes	-	-	2	-	
Fish pastes and spreads	-	-	1	-	
Flour	-	-	2	-	
Flour mixtures (cake, pudding, sponge mixtures, cake flour etc.)	-	-	1	-	

ARTICLES (continued)	Formal Samples		Informal Samples		Remarks
	Exam- ined	Adulter- ated	Exam- ined	Adulter- ated	
Fruit conserves (e.g. tinned and bottled fruit)	-	-	2	-	See Note (b)
Ice Cream	-	-	19	11	
Jams, jellies and fruit curds	-	-	1	-	
Margarine	-	-	1	-	See Note (c)
Meat pies, pastries and sausage rolls	1	-	9	1	
Meat pastes and spreads	-	-	10	2	See Note (d)
Milk (excluding dried, condensed, evaporated and flavoured etc. milk)	7	1	14	4	See Note (e)
Milk (condensed and dried)	-	-	3	-	See Note (f)
Mince	6	1	1	-	
Saccharin	-	-	1	-	See Note (g)
Sausage and sausage meat	12	2	12	5	
Soft drinks (exclud- ing fruit juices)	-	-	5	-	
Spices and condi- ments	-	-	3	-	See Note (h)
Spirits	14	-	-	-	
Sugar and confectionery	-	-	5	-	
Table jellies	-	-	1	-	See Note (h)
Other Articles (include all articles not named above)	-	-	57	2	
TOTAL	40	4	169	26	

NOTES

- (a) Orkney Farm Cheese — Labelling offence. Label altered by manufacturer.
- (b) Ice Cream samples (11) found to contain non-milk fat without suitable declaration. Vendors instructed to display appropriate notice.
- (c) "Scottish Pies" — not labelled as such. Manufacturer warned.
- (d) Meat paste deficient in meat content. After consultations with manufacturers, product withdrawn from sale.
- (e) Long Life UHT milk — Warning letter. Four samples of milk found to be deficient in fat but Hortvet test did not indicate added water.
- (f) Mince — small excess of preservative. Warning letter.
- (g) Sausages - small excess of preservative. Warning letter.
Beefburgers - products re-labelled by manufacturers.
- (h) Chicken Fillets in glass jar found to be misleading. Manufacturer notified.
Heather Honey — Name and address of packer not shown.

UNSOUND FOOD

The following foodstuffs were dealt with as being unfit for human consumption:-

		Weight (in lbs).
(a) Tinned Foods:-	Chicken	15
	Coffee	28
	Fish	12
	Fruit	112
	Jam	53
	Milk and Milk Products	45
	Pasteurised Egg	186
	Soup	109
	Vegetables	92
(b) Meats:-	Corned Beef	205
	Ham	196
	Pork	61
	Steak	11
	Tongue	12
	Others	39
(c) Open Foods:-	Cheese	94
	Meat	1800
	Shortening	20
(d) Frozen Foods:-	Chicken	129
	Confectionery	46
	Fish Products	77
	Meat Products	74
	Ice Cream Products	47
	Vegetables	102
Total Weight of food		3575

MEAT INSPECTION

This Department continues to carry out meat inspection at the public slaughterhouse at Forfar and the private slaughterhouse at Brechin. The following table gives details of animals inspected and those condemned.

	FORFAR			Weight (in lbs.) of condemned	
	Slaughtered	Wholly Condemned	Partially Condemned	Meat	Offal
Cattle	5,259	159	111	67,742	36,572
Sheep	4,901	105	22	6,065	479
Pigs	1,458	34	91	5,154	438
Calves	169	10	1	385	2
Totals	11,787	308	225	77,346	37,491

	BRECHIN			Weight (in lbs.) of condemned	
	Slaughtered	Wholly Condemned	Partially Condemned	Meat	Offal
Cattle	1,962	16	26	8,753	2,954
Sheep	5,834	50	57	1,850	296
Pigs	3,323	59	174	7,121	289
Calves	341	25	8	1,113	86
Totals	11,460	150	265	18,837	3,625

PUBLIC CLEANSING

SCAVENGING

In May, 1971, the collection service for domestic refuse was extended to include an additional area consisting of twenty-two parishes. This means that all public roads in the landward area, with the exception of five parishes, are traversed by a cleansing vehicle.

The parishes which at present are receiving a limited service are Kirriemuir, Kingoldrum, Cortachy and Clova, Lethnot and Navar, and Lochlee. Preparatory work is in progress to provide a comprehensive service to these parishes and it is therefore anticipated that by May, 1973 all parts of the County will have a collection service for domestic refuse.

REFUSE DISPOSAL

Several meetings of the Joint Committee of Technical Officers of the Angus Burghs and the landward Area took place over the year to discuss further the proposal of a Joint Refuse Disposal Scheme.

Members of the various Local Authorities attended subsequent meetings and concurrence was reached of the need to proceed with a Feasibility Study of the project.

The National Industrial Fuel Efficiency Service, as Consulting Engineers, were engaged to produce the Feasibility Study.

CIVIC AMENITIES ACT, 1967

An official dump under the provisions of this Act has been established at Friockheim under the supervision of a part-time employee.

Indiscriminate dumping continues as a "running sore" throughout the County. There would appear to be no reason for this type of dumping since the items strewn in the countryside can be dealt with during the course of a normal week's collection of domestic refuse.

FACTORIES

The number of factories on the register at the end of the year was 115.

COMPLAINTS AND NUISANCES

The following complaints and nuisances were dealt with during the year:-

Water Supply	...	...	...	...	7
Drainage	...	...	...	...	8
Housing	...	...	...	...	7
Accumulations of Manure or Refuse			...	...	16
Offensive Smells	...	...	...	...	10
Smoke	...	...	...	...	2
Rats	...	...	...	...	7
Other Pests	...	...	...	...	3
Piggeries	...	...	...	...	2
Pollution of Ditches	...	...	...	...	22
Foreign Matter in Food	...	...	...	...	6
Noise	...	...	...	...	3
Miscellaneous	...	...	...	...	5
					<hr/>
					98
					<hr/>

PREVENTION OF DAMAGE BY PESTS ACT, 1949

Complaints investigated, field survey work and work done under contract entailed 2,957 visits to premises (refuse tips included) by the District Inspectors and the Pest Officer and 400 treatments by the latter.

Gassing was successful where this method of exterminating rats was found to be suitable. In all other infestations poisoning by "Warfarin" cleared the premises.

WATER SUPPLY

During the year twenty-one samples of water were taken for bacteriological examination. Eight supplies had samples taken for both bacteriological purposes and chemical analysis and one sample for chemical analysis only was taken from a supply which had previously been found to have a high lead content due to the effect of the water on the lead delivery pipes which were replaced.

Nine routine bacteriological samples were taken from the public supply for information of the Medical Officer of Health. Eight supplies were sampled for grant purposes and the remaining samples were taken from both public and private sources as a result of complaints or for routine information on various private supplies.

CARAVAN SITES AND CONTROL OF DEVELOPMENT ACT, 1960

At the end of the year there were seven residential and seven holiday sites licensed by this Authority.

During the year no serious complaints were received by this department regarding the operation of any of the sites. Routine inspections showed the holiday and large residential sites to be well managed.

Site licencing conditions were being observed by the operators.

OFFICES, SHOPS AND RAILWAYS PREMISES ACT, 1963

1. REGISTRATION AND INSPECTIONS

Routine inspections of registered premises were carried out during the year and one significant point was the fact that there was a sharp drop in the number of

premises covered by the Act. This was applicable particularly to small business where previously employers had full-time staff but had since gone over to part-time, presumably to cut increasing labour costs and expenditure.

2. OPERATION AND GENERAL PROVISIONS OF THE ACT

During inspections it was noted that most of the provisions of the Act were being attended to, however, several still lack the attention required and these include particularly provision of the abstract of the Act, contents of first-aid boxes and lighting in parts of some premises. A fair degree of success has been achieved in bringing the need for a better standard of lighting to the attention of those concerned and it is hoped that this will continue.

Several premises still provide a first-aid box containing "a piece of adhesive plaster and a bottle of aspirins" and a list of the required contents of these boxes was sent to each person concerned. Many still cannot understand why so much is required for their office or shop and some discussion is required to convince them.

In addition to premises not providing the abstract of the Act, some of those who had obtained the leaflet had it tucked away in a drawer or behind other publications on the wall. Again it was brought to the attention of the person concerned verbally or by letter.

Most other provisions of the Act gave little or no trouble including guarding of food slicing machines. Although one or two shops still had insufficient guards on their slicing machines, this was brought to their attention by means of a letter and diagrams from the booklet SHW.14, and on subsequent visits the guards were either provided or on order.

3. ACCIDENTS

No accidents were encountered or reported during the year.

4. PROSECUTIONS

No prosecutions were undertaken during the year.

TABLE A
Registrations and General Inspections

Class of Premises (1)	Number of premises newly registered during the year. (2)	Total number of registered premises at end of year (3)	Number of registered premises receiving one or more general inspections during the year (4)
Offices	-	25	19
Retails shops	1	26	25
Wholesale shops, warehouses	-	1	1
Catering establishments open to the public, canteens	-	17	17
Fuel Storage depots	-	-	-
TOTALS	1	69	62

TABLE B

NUMBER OF VISITS OF ALL KINDS (INCLUDING GENERAL
INSPECTIONS TO REGISTERED PREMISES

TABLE C
Analysis by Workplace of Persons Employed in
Registered Premises at End of Year

Class of workplace (1)	Number of Persons Employed (2)
Offices	123
Retail Shops	53
Wholesale departments, warehouses	20
Catering establishments, open to the public	134
Canteens	-
Fuel storage depots	-
TOTAL	330

Total Males — 152

Total Females — 178

BUILDING (SCOTLAND) ACTS, 1959—70

A total of 486 applications for Building Warrants representing a capital works value of £1,697,361 were received and dealt with during the year. Of these 290 were major warrants, an increase of 9 compared with last year and 196 were minor warrants an increase of 35 on last year.

Details of these warrants and their values are shown on the tables below.

Details of Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	4	£157,500	170	£818,676
Schools	3	6,100	-	-
Factories	-	-	2	300
Miscellaneous	4	11,870	107	637,961
Shops	-	-	-	-
Offices	-	-	-	-

Refusals — Nil

Details of Minor Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	-	-	107	£ 37,259
Schools	-	-	-	-
Factories	-	-	1	450
Miscellaneous	-	-	86	26,715
Shops	-	-	1	350
Offices	-	-	1	180

Refusals — Nil.

NEW BUILDING LEGISLATION

The following new Building legislation came into operation during the year:-

1. The Building Standards (Scotland) Amendment Regulations, 1971
2. The Building Standards (Relaxation by Buildings Authorities) (Scotland) Regulations, 1971
3. The Building (Procedure)(Scotland) Regulations, 1971

THE BUILDING STANDARDS (SCOTLAND) AMENDMENT REGULATIONS, 1971

The main effect of these regulations on the Building Standards (Scotland) (Consolidation) Regulations, 1970 is to clarify the intention of certain sections dealing with resistance to the transmission of heat in walls of houses and certain other types of buildings, ventilation requirements and the minimum cubic capacity of larders in houses equipped with a refrigerator.

In addition, less onerous standards now apply to sun porches and the required minimum height of balustrades, landings and balconies on stairways within houses.

It also provides a designer of houses with an alternative means of complying with space requirements in housing in line with the new space standards contained in the Scottish Housing Handbook : Bulletin 1 : Metric Space Standards, 1968.

If, however, a designer elects to use these new space standards, he is required to show the furniture layout in the houses.

THE BUILDING STANDARDS (RELAXATION BY BUILDINGS AUTHORITIES) (SCOTLAND) REGULATIONS 1971

These regulations empower Building Authorities to deal with applications for relaxation from certain sections of the regulations in respect of alterations or extensions to existing dwelling houses and the conversion of other buildings into houses.

THE BUILDING (PROCEDURE)(SCOTLAND) REGULATIONS, 1971

This regulation revokes the Building (Scotland) Act, 1959 (Procedure) Regulations 1964.

The main changes are:-

1. MINOR WORK

The previous limit on the cost of works which could be regarded as minor for the purposes of Section 7 of the Act has been raised from £500 to £2,500 largely to facilitate and speed up the handling of applications for warrant of a routine nature and which are also unopposed.

The limit of cubic capacity remains the same but has been converted to a rounded metric equivalent.

2. APPLICATIONS TO BUILDINGS AUTHORITY FOR A WARRANT

Less stringent rules are prescribed governing plans to be submitted in connection with minor works or amendment of warrant. In future, with the agreement of the Clerk to the Buildings Authority or the Master of Works, the plans specified in Schedule 1 need not be submitted when in the case of minor works the proposal can clearly be established from the application and any plan which might accompany it. Similar

arrangements apply in the case of amendment of warrant if the works are sufficiently clear by reference to the application and the warrant proposed to be amended.

3. OPPOSED APPLICATIONS

Paragraph (5) of this regulation alters the procedure for attendance by applicants at hearings. If he so chooses the applicant may leave his opposed application to be disposed of on the basis of a written statement. The buildings authority will have a discretion to determine the application taking into account any objection and any statement by the applicant on the objection. They cannot, however, dismiss the application on the grounds of an objection which has not been made known to the applicant. If fresh matter were raised the buildings authority could continue any hearing and give the applicants the opportunity of being heard or of making further representations in writing.

4. APPLICATION TO BUILDINGS AUTHORITY FOR DIRECTION

This part deals with procedure to be followed by the public when making application to a buildings authority for relaxation of the building regulations and the procedure to be followed by buildings authorities when dealing with such applications.

5. PLANS TO BE SUBMITTED TO BUILDINGS AUTHORITIES

The Schedule of requirements has been amended to reflect changes in practice including metrication.

BUILDING (SCOTLAND) ACT, 1959 – PART III

Dangerous Buildings

Three properties were dealt with during the year.

1. Demolition of building at 15 King Street, Ferryden.
2. Demolition of roof and portion of walls at a ruinous property at Dunnichen.
3. Demolition of a chimney at house in Edzell.

The building at Ferryden was in multiple ownership and had one permanent occupant for whom alternative accommodation had to be arranged before the building could be dealt with.

Notices requiring the owners to demolish the building were served and when these owners were in default of the terms of the Notice the County Council demolished this property.

The owner of the ruinous house at Dunnichen was in Australia but a Notice was served on his agents, who authorised the demolition work to be carried out.

The chimney of the property at Edzell was demolished after a verbal representation to the owner so that the formal serve of an Notice was not required.

ANGUS COUNTY COUNCIL AS RIVER PURIFICATION AUTHORITY

Information as to Water Resources:

1. Rainfall : Rainfall records of the River North Esk Catchment area are available and may be inspected at the office of the County Sanitary Inspector, Ravenswood, Forfar.
Six rain gauges are maintained by the East of Scotland Water Board and I am indebted to the Engineer who makes the records available to this Department. Daily readings are taken from four of the gauges, while the remaining two are recorded monthly. This monthly exchange of the rainfall recorded at Whitehillocks and at the Climatological Station R.A.F., Edzell with the County Sanitary Inspector, Stonehaven, continues.
2. Characteristics of Stream : Routine sampling of the rivers North and South Esk is carried out regularly.
Routine sampling of the River North Esk is effected in co-operation with Kincardine County River Purification Authority and the Analysts' reports on all samples are exchanged.
All records are available for inspection at the office of the County Sanitary Inspector.
3. Abstraction of Water : No action was taken by this authority during the year.
4. General : The rainfall records of gauging stations in the catchment area of the River North Esk are tabulated in Appendix A.

PREVENTION OF POLLUTION

QUALITY OF RIVER WATER

The quality of water flowing in the main rivers continues to be satisfactory. The routine samples taken in the Rivers North and South Esk, in accord with the Analyst's reports show a classification variation from Very Clean to Fairly Clean.

The classification scale for stream water recommended by the Royal Commission on Sewage Disposal used as follows:- :-

Character of Stream Classification				B.O.D. in Five days (p.p.m.)
Very Clean	...	...	...	1
Clean	...	...	...	2
Fairly Clean	...	...	...	3
Doubtful	...	...	...	5
Bad	...	...	...	10

Details of the fifty-one samples of stream water taken during the year are shown in Appendix B.

A map of the area of the River Authority showing the river systems and sampling points is inserted at the end of this report.

STANDARDS APPLIED TO EFFLUENTS

The undernoted standards have been used to assess the suitability of any sewage effluent discharged into a stream.

1. The biochemical oxygen demand (B.O.D.) in five days at 20°C not to exceed 20 p.p.m.
2. The suspended solids content, dried at 105°C not to exceed 30 p.p.m.
3. The pH value to be between five and nine.
4. The oxygen absorbed from acid N/80 permanganate in four hours at 26.7°C not to exceed 20 p.p.m.
5. Arsenic, copper or chromium, either individually, or in toto not to exceed 0.5 p.p.m.
6. Cyanide (as CN) not to exceed 0.1 p.p.m.
7. No visible oil or grease to be present.
8. The clarity to be at least 225 mm.
9. The discharge not to contain any toxic substances harmful to fish or other aquatic fauna.

In the case of plants providing full treatment except for the settlement of filter effluent, it is expected that when a sample of the effluent is given quiescent settlement for one hour the supernatant liquid shall conform to the above standards.

Plants providing only sedimentation, or septic tanks, are expected to discharge an effluent with less than 100 parts per million solids in suspension. Effluents discharging to watercourses which have less than eight volumes of water available as dilution have to conform to more stringent standards.

The standards presently used to determine the quality of the sewage effluent discharged from Brechin Sewage Purification Works differ in respect of the B.O.D. which should not exceed 200 p.p.m. and the suspended solids content which should not exceed 100 p.p.m.

Trade effluents merit individual assessment.

SAMPLES AND ANALYSIS OF EFFLUENTS

SEWAGE EFFLUENTS

The Analyst's findings on the seventeen samples of sewage effluent discharging to streams are tabulated below.

The B.O.D. and/or suspended solids were reported to exceed the standards in ten of the samples analysed.

The lowest and highest figures are expressed in parts per million.

	Satisfactory	Unsatisfactory	Lowest	Highest
B.O.D.	8	9	5	151
Suspended Solids	13	4	4	54

NEW OUTLETS AND DISCHARGES

All plans and proposals submitted to the County Council involving new drainage and discharges to streams within the Authority's area are carefully considered. Should it be possible to dispose satisfactorily of the effluent by some means other than to a water-course, the promoter is advised accordingly.

The procedure has effected a considerable reduction in the number of applications for consent to new outlets and for new discharges to be dealt with.

New Outlets

(a) Number of applications in hand at the beginning of the year	-
(b) Number of applications received during the year	10
(c) Number of consents issued	10
(d) Number of consents refused	-
(e) Number of applications in hand at the end of the year	-

SEWAGE AND TRADE EFFLUENTS

No developments have been made during the year which could adversely affect the quality of the streams.

REMEDIAL ACTION

(A)

The following work of a minor nature was done during the year to remove pollution of streams:-

River South Esk

BRECHIN BURGH — Sewer repaired.

NORTH PORT DISTILLERY, BRECHIN — Fractured drain renewed in iron.

MILL OF TANNADICE — Defective dam repaired.

STANNOCHY FARM — Overflowing pit emptied.

WEST MAINS OF ROSSIE — Silo re-sited.

River North Esk

NEWTON OF STRACATHRO — Excess grass removed.

Lunan Water

BACKBOATH FARM — Sealed tank provided for silage effluent.

HILLKIRK FARM — Concrete kerb provided at silo.

DRUMBERTNOT FARM — Excess grass removed

EAST IDVIES FARM — Excess grass removed.

LITTLE LOUR — Effluent from distillery draff — Burn polluted for three weeks.

Farmer agreed to provide sealed tank.

OTHER GENERAL INFORMATION

Eleven complaints of river pollution were investigated, two of which could not be substantiated and in the case of fish mortality no further action could be taken as the County Analyst's report on a sample of the stream water taken and handed into this office was inconclusive.

Inspection following a complaint that the three storm water overflows and pumping station recently constructed on the Brechin sewerage system were polluting the river. Evidence of the discharge of sewage solids was seen on the hakes at the mouths of the storm overflows. The condition was reported to the Brechin Burgh Surveyor for attention.

Six complaints resulted from grass silage effluents, two being caused by an excess of grass ensiled, the effluent from the overspill by-passing the tank drainage system of the silo and finding a way into a stream, another complaint was adequately dealt

with by the re-siting of the silage, the two remaining complaints were cured in one case by the provision of a sealed tank to retain the effluent prior to disposal by land irrigation and the second by the provision of a sufficient kerb to prevent the surface escape of the effluent.

The eleventh complaint referred to the presence of "sewage fungus" in the River South Esk arising from the discharge of the Brechin Sewage Works effluent. At the end of the year plans for the improvement of the Sewage Works were under consideration.

The owners of four farms which have caused continuous or annual recurring pollution of streams were reported to the Authority.

Appendix A Rainfall Statistics River North Esk Catchment Area

Site of Rain Gauge	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	1971 Total Rain- fall (mm)	1971 Total Rain- fall (ins.)
Stables, Glen Lee	152.2	50.2	120.0	60.1	76.6	67.5	81.5	55.8	36.5	90.2	179.6	85.1	1,055.30	41.55
Bridge of Lee	166.0	45.1	82.4	72.1	92.0	55.0	87.1	44.35	42.2	75.9	71.6	69.8	903.55	35.57
Inchgrundle, Loch Lee	187.1	35.3	96.2	74.1	90.7	52.8	97.4	44.62	35.8	69.6	87.0	69.0	939.62	36.99
Invermark, Loch Lee	172.4	33.4	108.2	69.3	87.2	45.3	100.3	49.8	42.8	59.7	84.7	60.0	911.10	35.87
Whitehillocks, Glen Esk	159.2	31.1	71.40	70.0	77.8	43.5	94.1	53.0	37.5	47.1	46.2	74.9	805.80	31.73
R.A.F. Station, Edzell	87.02	16.22	206.0	75.18	31.24	116.7	89.58	70.11	62.41	114.2	54.51	116.9	1,040.04	42.23
Kinnaber, Montrose	77.5	20.9	55.2	38.7	44.3	47.8	80.6	43.0	21.5	30.5	64.3	23.1	547.40	21.49

Appendix B

River North Esk

Date	22.4.71	20.5.71	24.6.71	22.7.71	19.8.71	16.9.71	14.10.71
Sampling Point	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n
1. Above Edzell	1.0 V.C.	1.0 V.C.	0.7 V.C.	1.0 V.C.	1.1 C.	0.4 V.C.	1.0 V.C.
2. Below Edzell	1.0 V.C.	0.6 V.C.	1.2 C.	1.09 C.	0.8 V.C.	1.4 C.	1.0 V.C.

River South Esk

Date	11.2.71	22.4.71	20.5.71	24.6.71	22.7.71	19.8.71	16.9.71	14.10.71
Sampling Point	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n	BOD Clas'n
1. Near Kinnaird Viaduct	1.56 C.	1.0 V.C.	3.2	1.9 D.	1.4 C.	0.9 V.C.	1.1 C.	1.0 V.C.
2. Below Brechin	1.25 C.	2.3 F.C.	1.6	.C.	1.4 C.	1.5 C.	1.5 C.	1.0 V.C.
3. Above Brechin	-	0.5 V.C.	0.8 V.C.	0.5 V.C.	0.8 V.C.	0.8 V.C.	0.4 V.C.	1.0 V.C.

Appendix B. (continued)
Other Samples from Streams

Date	Stream	Parts per Million		Suspended Solids	Remarks
		BOD			
18.3.71	Magungie Burn — Outlet from Dam	2.5		18	For Information
15.4.71	Magungie Burn — Near Inflow to Dam	3.3		10	For Information
13.5.71	Burn in Den of Lour	31.0		8	Investigation
17.6.71	Lunan Water At Balmullie Mill	0.7		10	Spot Check Sample
24.6.71	Skinner's Burn, Brechin Burgh	Greater than 500		59	Investigation
22.7.71	Denton Burn, Kirkden	Over 10		4	Complaint
29.7.71	Lunan Water opposite Lunan House	2.0		7	For Information
15.8.71	Ditch to Brothock Water				Fish Mortality — Results inconclusive
15.8.71	Ditch to Brothock Water				Fish Mortality — Results inconclusive
26.8.71	Lunan Water above Lunan Hotel	2.9		3	For Information
26.8.71	Lunan Water below Lunan Hotel	2.4			For Information
21.9.71	Ditch to Brothock Water	220		136	For Information
21.9.71	Ditch to Brothock Water	30		91	For Information
23.9.71	Denton Burn, Kirkden	0.3		1	For Information
9.12.71	Skinner's Burn near Brechin	0.1		7	For Information
9.12.71	Skinner's Burn below Dubton Drain	4.0		14	For Information
9.12.71	Skinner's Burn above Dubton Drain	1.3		4	For Information

